

c 101	43.4	3.3	396	4	US-09-825-294-53	Sequence 53, Appl	174	42.2	3.2	1118	4	US-09-614-912-181	Sequence 181, Appl
c 102	43.4	3.3	396	4	US-09-970-966-53	Sequence 53, Appl	175	42.2	3.2	1364	1	US-08-265-087-3	Sequence 3, Appl
c 103	43.4	3.3	2601	3	US-08-569-749-3	Sequence 3, Appl	176	42.2	3.2	1364	1	US-08-621-493-3	Sequence 3, Appl
c 104	43.4	3.3	2601	4	US-09-689-366-3	Sequence 3, Appl	177	42.2	3.2	1364	2	US-08-965-688-3	Sequence 3, Appl
c 105	43.4	3.3	2601	5	PCT-US96-12860-3	Sequence 3, Appl	178	42.2	3.2	1364	3	US-09-260-173-3	Sequence 3, Appl
c 106	43.2	3.2	396	4	US-09-640-173-33	Sequence 33, Appl	179	42.2	3.2	1540	3	US-08-977-001-2	Sequence 2, Appl
c 107	43.2	3.2	396	4	US-09-713-550-33	Sequence 33, Appl	180	42.2	3.2	5173	1	US-08-242-677-1	Sequence 1, Appl
c 108	43.2	3.2	396	4	US-09-825-294-33	Sequence 33, Appl	181	42.2	3.2	7724	1	US-08-486-049-1	Sequence 1, Appl
c 109	43.2	3.2	396	4	US-09-970-966-33	Sequence 33, Appl	182	42	3.2	7724	1	US-08-702-344-26	Sequence 16227, A
c 110	43.2	3.2	960	3	US-09-248-335-57	Sequence 57, Appl	183	42	3.2	300	4	US-09-621-976-16227	Sequence 2627, A
c 111	43.2	3.2	1411	3	US-08-964-127-5	Sequence 5, Appl	184	42	3.2	958	2	US-08-757-046A-5	Sequence 5, Appl
c 112	43.2	3.2	1411	3	US-09-496-692-5	Sequence 5, Appl	185	42	3.2	958	3	US-09-447-208-5	Sequence 5, Appl
c 113	43.2	3.2	1411	4	US-10-000-273-5	Sequence 5, Appl	186	42	3.2	958	3	US-09-135-988-5	Sequence 5, Appl
c 114	43.2	3.2	2038	4	US-09-885-723-6	Sequence 6, Appl	187	42	3.2	958	3	US-09-277-716-5	Sequence 5, Appl
c 115	43.2	3.2	2218	4	US-09-016-434-1157	Sequence 1157, Ap	188	42	3.2	958	3	US-08-597-274A-5	Sequence 5, Appl
c 116	43.2	3.2	2218	4	US-10-329-668-7	Sequence 7, Appl	189	42	3.2	958	3	US-08-908-909-5	Sequence 5, Appl
c 117	43.2	3.2	2233	1	US-08-496-631-1	Sequence 7, Appl	190	42	3.2	958	3	US-09-609-161B-5	Sequence 5, Appl
c 118	43.2	3.2	4931	3	US-08-726-320-2	Sequence 2, Appl	191	42	3.2	958	3	US-08-990-103-5	Sequence 5, Appl
c 119	43.2	3.2	4931	3	US-09-208-716-2	Sequence 2, Appl	192	42	3.2	958	4	US-09-746-485A-5	Sequence 5, Appl
c 120	43	3.2	396	4	US-09-640-173-10	Sequence 10, Appl	193	42	3.2	958	4	US-10-126-139-5	Sequence 5, Appl
c 121	43	3.2	396	4	US-09-713-550-10	Sequence 10, Appl	194	42	3.2	958	4	US-10-126-778-5	Sequence 5, Appl
c 122	43	3.2	396	4	US-09-825-294-10	Sequence 10, Appl	195	42	3.2	958	4	US-10-126-777-5	Sequence 5, Appl
c 123	43	3.2	396	4	US-09-970-966-10	Sequence 10, Appl	196	42	3.2	1738	4	US-09-918-909A-27	Sequence 27, Appl
c 124	43	3.2	2271	4	US-09-205-258-243	Sequence 243, App	197	42	3.2	2280	3	US-08-813-150-1	Sequence 1, Appl
c 125	43	3.2	2276	4	US-09-205-258-183	Sequence 183, App	198	42	3.2	2280	4	US-09-546-553-1	Sequence 1, Appl
c 126	43	3.2	3200	1	US-08-444-405-1	Sequence 1, Appl	199	42	3.2	3319	3	US-08-335-844A-15	Sequence 15, Appl
c 127	43	3.2	3200	1	US-08-384-850-1	Sequence 1, Appl	200	42	3.2	3319	4	US-09-129-366-15	Sequence 15, Appl
c 128	43	3.2	5894	3	US-08-665-259-24	Sequence 24, Appl	201	42	3.2	3715	4	US-09-234-245-1	Sequence 1, Appl
c 129	43	3.2	5894	3	US-08-762-500-24	Sequence 24, Appl	202	41.8	3.1	397	3	US-09-253-691-3	Sequence 3, Appl
c 130	43	3.2	6525	3	US-08-762-500-74	Sequence 74, Appl	203	41.8	3.1	441	4	US-09-601-537-10	Sequence 10, Appl
c 131	42.8	3.2	451	4	US-09-621-976-2738	Sequence 2738, Ap	204	41.8	3.1	443	4	US-09-936-885A-1	Sequence 1, Appl
c 132	42.8	3.2	1066	1	US-08-157-101A-4	Sequence 4, Appl	205	41.8	3.1	593	3	US-09-385-982-262	Sequence 262, App
c 133	42.8	3.2	1277	4	US-09-461-325-20	Sequence 20, Appl	206	41.8	3.1	990	4	US-09-800-729-79	Sequence 79, Appl
c 134	42.8	3.2	1277	4	US-10-012-542-20	Sequence 20, Appl	207	41.8	3.1	1098	3	US-09-248-335-35	Sequence 35, Appl
c 135	42.8	3.2	1277	4	US-10-115-123-20	Sequence 20, Appl	208	41.8	3.1	2230	3	US-08-378-313-24	Sequence 24, Appl
c 136	42.8	3.2	1370	3	US-09-026-408-12	Sequence 12, Appl	209	41.8	3.1	2895	4	US-09-706-197-3	Sequence 3, Appl
c 137	42.8	3.2	1370	4	US-09-902-684-12	Sequence 12, Appl	210	41.8	3.1	4121	4	US-09-601-537-9	Sequence 9, Appl
c 138	42.8	3.2	1371	3	US-09-026-408-1	Sequence 1, Appl	211	41.8	3.1	374159	4	US-09-949-016-15868	Sequence 15868, A
c 139	42.8	3.2	1371	4	US-09-902-684-1	Sequence 1, Appl	212	41.6	3.1	140	1	US-08-628-417-5	Sequence 5, Appl
c 140	42.8	3.2	1736	3	US-09-182-816-22	Sequence 22, Appl	213	41.6	3.1	147	4	US-09-621-976-10254	Sequence 10254, A
c 141	42.8	3.2	1736	3	US-09-182-816-22	Sequence 24, Appl	214	41.6	3.1	240	1	US-08-628-417-6	Sequence 6, Appl
c 142	42.8	3.2	1736	3	US-09-471-528-22	Sequence 22, Appl	215	41.6	3.1	684	1	US-08-226-264-27	Sequence 27, Appl
c 143	42.8	3.2	1736	3	US-09-471-528-22	Sequence 24, Appl	216	41.6	3.1	769	4	US-09-513-775B-5	Sequence 5, Appl
c 144	42.8	3.2	1736	3	US-09-634-530-22	Sequence 22, Appl	217	41.6	3.1	831	4	US-09-904-615-25	Sequence 25, Appl
c 145	42.8	3.2	1736	3	US-09-634-530-24	Sequence 24, Appl	218	41.6	3.1	1052	4	US-09-489-847-23	Sequence 23, Appl
c 146	42.6	3.2	249	4	US-09-621-976-19144	Sequence 19144, A	219	41.6	3.1	1114	3	US-09-152-060-41	Sequence 41, Appl
c 147	42.6	3.2	351	4	US-09-621-976-15134	Sequence 15134, A	220	41.6	3.1	1443	4	US-09-904-615-21	Sequence 21, Appl
c 148	42.6	3.2	577	3	US-09-149-476-313	Sequence 313, App	221	41.6	3.1	1700	2	US-08-897-340-4	Sequence 4, Appl
c 149	42.6	3.2	1037	4	US-09-489-847-112	Sequence 112, App	222	41.6	3.1	1700	3	US-09-252-329-4	Sequence 4, Appl
c 150	42.6	3.2	2369	4	US-09-057-996-13	Sequence 13, App	223	41.6	3.1	2186	3	US-09-360-545-66	Sequence 66, Appl
c 151	42.6	3.2	4765	3	US-08-936-135-21	Sequence 21, Appl	224	41.6	3.1	2625	4	US-09-270-767-10080	Sequence 10080, A
c 152	42.6	3.2	4765	4	US-09-439-711C-21	Sequence 21, Appl	225	41.6	3.1	3138	1	US-07-867-106-4	Sequence 4, Appl
c 153	42.6	3.2	4780	3	US-08-936-135-23	Sequence 23, Appl	226	41.4	3.1	193	4	US-09-621-976-10543	Sequence 10543, A
c 154	42.6	3.2	4780	3	US-09-439-711C-23	Sequence 23, Appl	227	41.4	3.1	270	2	US-08-520-678A-30	Sequence 30, Appl
c 155	42.6	3.2	10660	2	US-08-267-803B-8	Sequence 8, Appl	228	41.4	3.1	270	3	US-08-897-126-30	Sequence 30, Appl
c 156	42.6	3.2	130724	4	US-09-041-886-16	Sequence 16, Appl	229	41.4	3.1	386	4	US-09-829-481-5	Sequence 5, Appl
c 157	42.6	3.2	168	2	US-08-469-802B-4	Sequence 13753, A	230	41.4	3.1	612	4	US-09-902-540-1357	Sequence 1357, Ap
c 158	42.4	3.2	168	2	US-08-469-802B-4	Sequence 4, Appl	231	41.4	3.1	748	1	US-08-361-467B-3	Sequence 3, Appl
c 159	42.4	3.2	168	2	US-08-267-803B-4	Sequence 4, Appl	232	41.4	3.1	748	1	US-08-484-332C-3	Sequence 3, Appl
c 160	42.4	3.2	171	1	US-08-469-802B-5	Sequence 5, Appl	233	41.4	3.1	905	4	US-09-640-211A-1944	Sequence 1944, Ap
c 161	42.4	3.2	171	2	US-08-267-803B-5	Sequence 5, Appl	234	41.4	3.1	1201	4	US-09-461-325-36	Sequence 36, Appl
c 162	42.4	3.2	195	1	US-08-469-802B-2	Sequence 2, Appl	235	41.4	3.1	1201	4	US-10-012-542-36	Sequence 36, Appl
c 163	42.4	3.2	195	2	US-08-267-803B-2	Sequence 2, Appl	236	41.4	3.1	1201	4	US-10-115-123-36	Sequence 36, Appl
c 164	42.4	3.2	234	1	US-08-469-802B-3	Sequence 3, Appl	237	41.4	3.1	1636	4	US-09-578-194-6	Sequence 6, Appl
c 165	42.4	3.2	234	2	US-08-267-803B-3	Sequence 3, Appl	238	41.4	3.1	2301	1	US-08-306-691B-23	Sequence 23, Appl
c 166	42.4	3.2	271	4	US-09-621-976-10380	Sequence 10380, A	239	41.4	3.1	2301	4	US-09-167-206-3	Sequence 3, Appl
c 167	42.4	3.2	1897	1	US-08-184-632-1	Sequence 1, Appl	240	41.4	3.1	2301	5	PCT-US93-06251-78	Sequence 78, Appl
c 168	42.2	3.2	253	2	US-08-520-678A-25	Sequence 25, Appl	241	41.4	3.1	2381	4	US-09-482-273-97	Sequence 97, Appl
c 169	42.2	3.2	253	3	US-08-897-126-25	Sequence 107, App	242	41.4	3.1	2822	4	US-09-907-794A-48	Sequence 48, Appl
c 170	42.2	3.2	427	4	US-09-461-325-107	Sequence 107, App	243	41.4	3.1	2822	4	US-09-905-125A-48	Sequence 48, Appl
c 171	42.2	3.2	427	4	US-10-012-542-107	Sequence 107, App	244	41.4	3.1	2822	4	US-09-902-775A-48	Sequence 48, Appl
c 172	42.2	3.2	427	4	US-10-115-123-107	Sequence 107, App	245	41.4	3.1	2822	4	US-09-906-700-48	Sequence 48, Appl
c 173	42.2	3.2	1091	4	US-09-328-965-1	Sequence 1, Appl	246	41.4	3.1	2822	4	US-09-903-603A-48	Sequence 48, Appl

247	41.4	3.1	2822	4	US-09-904-920A-48	Sequence 48, Appl	320	40.8	3.1	3299	4	US-09-900-729-68	Sequence 68, Appl
248	41.4	3.1	2822	4	US-09-909-064-48	Sequence 48, Appl	C 321	40.8	3.1	194937	4	US-09-949-016-17032	Sequence 17032, A
249	41.4	3.1	2822	4	US-09-905-381A-48	Sequence 48, Appl	C 322	40.8	3.1	194937	4	US-09-949-016-17033	Sequence 17033, A
250	41.4	3.1	2822	4	US-09-906-618-48	Sequence 48, Appl	323	40.6	3.0	123	4	US-09-621-976-12330	Sequence 12330, A
251	41.4	3.1	3581	2	US-08-738-349-1	Sequence 1, Appl	324	40.6	3.0	348	4	US-09-621-976-16137	Sequence 16137, A
252	41.2	3.1	146	4	US-09-621-976-8550	Sequence 8550, Ap	C 325	40.6	3.0	374	3	US-09-385-982-494	Sequence 494, Appl
253	41.2	3.1	147	4	US-09-621-976-8551	Sequence 8551, Ap	326	40.6	3.0	568	1	US-08-582-257-20	Sequence 20, Appl
254	41.2	3.1	162	4	US-09-621-976-10766	Sequence 10766, A	327	40.6	3.0	568	2	US-08-582-298-20	Sequence 20, Appl
255	41.2	3.1	314	4	US-09-621-976-16347	Sequence 16347, A	C 328	40.6	3.0	639	3	US-09-385-982-389	Sequence 389, Appl
256	41.2	3.1	323	4	US-09-621-976-10374	Sequence 10374, A	329	40.6	3.0	639	3	US-09-482-273-49	Sequence 48, Appl
257	41.2	3.1	601	4	US-09-949-016-57521	Sequence 57521, A	330	40.6	3.0	915	3	US-09-149-476-157	Sequence 157, Appl
258	41.2	3.1	1273	4	US-09-270-767-14731	Sequence 14731, A	331	40.6	3.0	915	3	US-09-149-476-294	Sequence 294, Appl
259	41.2	3.1	1357	4	US-09-461-325-55	Sequence 55, Appl	C 332	40.6	3.0	1020	4	US-08-328-475C-43	Sequence 43, Appl
260	41.2	3.1	1357	4	US-10-012-542-55	Sequence 55, Appl	333	40.6	3.0	1210	4	US-09-244-805-45	Sequence 45, Appl
261	41.2	3.1	1357	4	US-10-115-123-55	Sequence 55, Appl	334	40.6	3.0	1230	4	US-09-244-805-6	Sequence 6, Appl
262	41.2	3.1	1395	4	US-09-924-703-5	Sequence 5, Appl	335	40.6	3.0	1378	3	US-09-149-476-208	Sequence 208, Appl
263	41.2	3.1	2091	3	US-09-813-818-1	Sequence 1, Appl	C 336	40.6	3.0	1645	4	US-09-620-312D-807	Sequence 807, Appl
264	41.2	3.1	2091	4	US-10-199-333-1	Sequence 1, Appl	337	40.6	3.0	1713	3	US-09-000-062-1	Sequence 1, Appl
C 265	41.2	3.1	116652	4	US-09-949-016-13413	Sequence 13413, A	338	40.6	3.0	1713	4	US-08-945-144A-1	Sequence 1, Appl
266	41.2	3.1	300402	4	US-09-949-016-13632	Sequence 13632, A	339	40.6	3.0	1771	4	US-09-907-794A-158	Sequence 158, Appl
C 267	41	3.1	203	3	US-09-043-303-7	Sequence 7, Appl	340	40.6	3.0	1771	4	US-09-866-028-36	Sequence 36, Appl
268	41	3.1	578	3	US-09-602-877A-95	Sequence 95, Appl	341	40.6	3.0	1771	4	US-09-905-125A-158	Sequence 158, Appl
269	41	3.1	778	4	US-09-774-639-30	Sequence 30, Appl	342	40.6	3.0	1771	4	US-09-902-775A-158	Sequence 158, Appl
270	41	3.1	1037	4	US-09-181-585-3	Sequence 3, Appl	343	40.6	3.0	1771	4	US-09-906-700-158	Sequence 158, Appl
271	41	3.1	1159	4	US-09-181-585-1	Sequence 1, Appl	344	40.6	3.0	1771	4	US-09-944-457-36	Sequence 36, Appl
272	41	3.1	1215	4	US-09-646-693-1	Sequence 1, Appl	345	40.6	3.0	1771	4	US-09-903-603A-158	Sequence 158, Appl
273	41	3.1	1471	4	US-09-181-585-2	Sequence 2, Appl	346	40.6	3.0	1771	4	US-09-904-920A-158	Sequence 158, Appl
274	41	3.1	1474	3	US-08-821-994-64	Sequence 64, Appl	347	40.6	3.0	1771	4	US-09-909-064-158	Sequence 158, Appl
275	41	3.1	3692	4	US-09-077-940A-1	Sequence 1, Appl	348	40.6	3.0	1771	4	US-09-905-381A-158	Sequence 158, Appl
276	41	3.1	5984	4	US-09-705-872-2	Sequence 2, Appl	349	40.6	3.0	1771	4	US-09-906-618-158	Sequence 158, Appl
277	41	3.1	7277	4	US-09-795-527-5	Sequence 5, Appl	350	40.6	3.0	2323	3	US-09-149-476-24	Sequence 24, Appl
278	40.8	3.1	147	4	US-09-621-976-10383	Sequence 10383, A	351	40.6	3.0	2329	4	US-09-800-729-11	Sequence 11, Appl
C 279	40.8	3.1	154	1	US-08-469-802B-6	Sequence 6, Appl	352	40.6	3.0	2329	4	US-09-918-909A-23	Sequence 23, Appl
C 280	40.8	3.1	154	2	US-08-267-803B-6	Sequence 6, Appl	353	40.6	3.0	3960	4	US-09-949-016-826	Sequence 826, Appl
281	40.8	3.1	371	4	US-09-621-976-19223	Sequence 19223, A	354	40.6	3.0	5021	4	US-09-949-016-786	Sequence 786, Appl
C 282	40.8	3.1	470	3	US-09-020-956-102	Sequence 102, App	C 355	40.6	3.0	24984	4	US-09-949-016-14950	Sequence 14950, A
C 283	40.8	3.1	470	3	US-09-030-607-102	Sequence 102, App	C 356	40.6	3.0	139552	4	US-09-949-016-15300	Sequence 15300, A
C 284	40.8	3.1	470	3	US-09-439-313-102	Sequence 102, App	357	40.4	3.0	177	4	US-09-621-976-1047	Sequence 1047, App
C 285	40.8	3.1	470	3	US-09-352-616A-102	Sequence 102, App	358	40.4	3.0	194	4	US-09-621-976-801	Sequence 801, App
C 286	40.8	3.1	470	3	US-09-232-149A-102	Sequence 102, App	359	40.4	3.0	239	4	US-09-621-976-16226	Sequence 16226, A
C 287	40.8	3.1	470	4	US-09-159-812-102	Sequence 102, App	360	40.4	3.0	318	4	US-09-621-976-10247	Sequence 10247, A
C 288	40.8	3.1	470	4	US-09-636-215-102	Sequence 102, App	361	40.4	3.0	572	4	US-09-696-169A-12	Sequence 12, Appl
C 289	40.8	3.1	470	4	US-09-685-166A-102	Sequence 102, App	362	40.4	3.0	700	3	US-09-152-060-26	Sequence 26, Appl
C 290	40.8	3.1	470	4	US-09-115-453-102	Sequence 102, App	363	40.4	3.0	812	3	US-09-091-097-7	Sequence 7, Appl
C 291	40.8	3.1	470	4	US-09-688-489-102	Sequence 102, App	364	40.4	3.0	1505	2	US-08-909-965C-13	Sequence 13, Appl
C 292	40.8	3.1	470	4	US-09-679-426-102	Sequence 102, App	365	40.4	3.0	1530	4	US-09-811-361-19	Sequence 19, Appl
C 293	40.8	3.1	470	4	US-09-759-143-102	Sequence 102, App	366	40.4	3.0	1641	1	US-08-300-903A-8	Sequence 8, Appl
C 294	40.8	3.1	470	4	US-09-651-236-102	Sequence 102, App	367	40.4	3.0	1641	4	US-08-988-197-8	Sequence 8, Appl
C 295	40.8	3.1	509	3	US-09-030-607-202	Sequence 202, App	368	40.4	3.0	1641	4	US-10-385-072-8	Sequence 8, Appl
C 296	40.8	3.1	509	3	US-09-439-313-202	Sequence 202, App	369	40.4	3.0	1740	4	US-09-709-103-45	Sequence 45, Appl
C 297	40.8	3.1	509	3	US-09-352-616A-202	Sequence 202, App	370	40.4	3.0	1740	4	US-09-439-410A-45	Sequence 45, Appl
C 298	40.8	3.1	509	3	US-09-232-149A-202	Sequence 202, App	371	40.4	3.0	1801	4	US-09-709-103-3	Sequence 3, Appl
C 299	40.8	3.1	509	4	US-09-159-812-202	Sequence 202, App	372	40.4	3.0	1801	4	US-09-439-410A-3	Sequence 3, Appl
C 300	40.8	3.1	509	4	US-09-636-215-202	Sequence 202, App	373	40.4	3.0	1839	4	US-09-461-325-23	Sequence 23, Appl
C 301	40.8	3.1	509	4	US-09-685-166A-202	Sequence 202, App	374	40.4	3.0	1839	4	US-10-012-542-23	Sequence 23, Appl
C 302	40.8	3.1	509	4	US-09-115-453-202	Sequence 202, App	375	40.4	3.0	1839	4	US-10-115-123-23	Sequence 23, Appl
C 303	40.8	3.1	509	4	US-09-688-489-202	Sequence 202, App	376	40.4	3.0	1895	3	US-09-444-336-7	Sequence 7, Appl
C 304	40.8	3.1	509	4	US-09-679-426-202	Sequence 202, App	377	40.4	3.0	2481	2	US-08-630-118A-1	Sequence 1, Appl
C 305	40.8	3.1	509	4	US-09-759-143-202	Sequence 202, App	378	40.4	3.0	2481	2	US-08-838-399-1	Sequence 1, Appl
C 306	40.8	3.1	509	4	US-09-651-236-202	Sequence 202, App	379	40.4	3.0	2481	3	US-09-235-839-1	Sequence 1, Appl
C 307	40.8	3.1	949	4	US-09-489-847-35	Sequence 35, Appl	380	40.4	3.0	2481	3	US-09-327-035-1	Sequence 1, Appl
308	40.8	3.1	1049	4	US-09-800-729-67	Sequence 67, Appl	381	40.4	3.0	2604	2	US-08-630-118A-3	Sequence 3, Appl
309	40.8	3.1	1181	3	US-09-149-476-310	Sequence 310, Appl	382	40.4	3.0	2604	2	US-08-838-399-3	Sequence 3, Appl
310	40.8	3.1	1212	3	US-09-149-476-186	Sequence 186, Appl	383	40.4	3.0	2604	3	US-09-235-839-3	Sequence 3, Appl
311	40.8	3.1	1243	4	US-09-731-924A-1	Sequence 1, Appl	384	40.4	3.0	2604	3	US-09-327-035-3	Sequence 3, Appl
312	40.8	3.1	1244	4	US-08-916-442-1	Sequence 1, Appl	C 385	40.4	3.0	50217	4	US-09-949-016-16067	Sequence 16067, A
313	40.8	3.1	1244	4	US-09-317-641-1	Sequence 1, Appl	386	40.4	3.0	136264	4	US-09-949-016-12756	Sequence 12756, A
314	40.8	3.1	1315	3	US-09-721-622A-10	Sequence 10, Appl	387	40.4	3.0	136265	4	US-09-949-016-13001	Sequence 13001, A
315	40.8	3.1	1384	3	US-09-227-357-142	Sequence 142, Appl	388	40.4	3.0	283538	4	US-09-949-016-13506	Sequence 13506, A
316	40.8	3.1	1776	3	US-08-655-352-10	Sequence 10, Appl	389	40.2	3.0	244	4	US-09-621-976-484	Sequence 484, Appl
317	40.8	3.1	1776	3	US-09-258-016-10	Sequence 10, Appl	390	40.2	3.0	530	4	US-09-461-325-28	Sequence 28, Appl
318	40.8	3.1	1776	3	US-09-257-825B-10	Sequence 10, Appl	391	40.2	3.0	530	4	US-10-012-542-28	Sequence 28, Appl
319	40.8	3.1	1925	4	US-09-148-545-128	Sequence 128, App	392	40.2	3.0	530	4	US-10-115-123-28	Sequence 28, Appl

393	40.2	3.0	688	6	5498694-3	Patent No. 5498694	466	39.8	3.0	208	1	US-08-686-878A-37	Sequence 37, Appl
394	40.2	3.0	688	6	5498694-3	Patent No. 5498694	467	39.8	3.0	208	3	US-09-175-928-37	Sequence 37, Appl
395	40.2	3.0	780	3	US-08-540-804-36	Sequence 36, Appl	468	39.8	3.0	250	4	US-09-621-976-17371	Sequence 17371, A
396	40.2	3.0	780	3	US-08-590-399-36	Sequence 36, Appl	469	39.8	3.0	328	4	US-09-621-976-16143	Sequence 16143, A
397	40.2	3.0	903	5	PCT-US95-06406A-21	Sequence 21, Appl	470	39.8	3.0	356	3	US-08-520-678A-22	Sequence 22, Appl
398	40.2	3.0	1039	4	US-09-902-540-1280	Sequence 1280, Ap	471	39.8	3.0	356	3	US-08-897-126-22	Sequence 22, Appl
399	40.2	3.0	1048	4	US-09-489-847-38	Sequence 38, Appl	472	39.8	3.0	505	4	US-09-621-976-15639	Sequence 15639, A
400	40.2	3.0	1144	4	US-09-904-615-20	Sequence 20, Appl	473	39.8	3.0	556	3	US-09-370-838-242	Sequence 242, App
401	40.2	3.0	1325	1	US-08-306-691B-51	Sequence 51, Appl	474	39.8	3.0	556	4	US-09-854-133-242	Sequence 242, App
402	40.2	3.0	1325	2	US-08-464-517-1	Sequence 1, Appli	475	39.8	3.0	635	1	US-08-455-633A-35	Sequence 35, Appl
403	40.2	3.0	1325	2	US-08-246-361A-1	Sequence 1, Appli	476	39.8	3.0	635	1	US-08-416-336-5	Sequence 5, Appli
404	40.2	3.0	1325	3	US-08-463-772-1	Sequence 1, Appli	477	39.8	3.0	635	2	US-08-456-460C-35	Sequence 35, Appl
405	40.2	3.0	1325	5	PCT-US93-05000-1	Sequence 64, Appl	478	39.8	3.0	635	5	PCT-US94-05354-35	Sequence 106, App
406	40.2	3.0	1361	4	US-09-489-847-64	Sequence 81, Appl	479	39.8	3.0	687	4	US-09-774-639-106	Sequence 9, Appli
407	40.2	3.0	1406	4	US-10-000-489-81	Sequence 197, App	480	39.8	3.0	882	2	US-08-909-965C-9	Sequence 6, Appli
408	40.2	3.0	1412	4	US-09-614-912-197	Sequence 1, Appli	481	39.8	3.0	975	3	US-09-381-488-6	Sequence 13, Appl
409	40.2	3.0	1445	3	US-09-814-951A-1	Sequence 23, Appl	482	39.8	3.0	1139	4	US-09-690-454-13	Patent No. 5169941
410	40.2	3.0	1492	4	US-09-369-247-23	Sequence 1, Appli	483	39.8	3.0	1215	6	5169941-7	Patent No. 5169941
411	40.2	3.0	2239	3	US-09-396-390-1	Sequence 1, Appli	484	39.8	3.0	1215	6	5169941-7	Patent No. 5169941
412	40.2	3.0	2239	4	US-09-952-677-1	Sequence 1, Appli	485	39.8	3.0	1225	1	US-08-286-020-1	Sequence 1, Appli
413	40.2	3.0	2246	3	US-09-363-708-3	Sequence 3, Appli	486	39.8	3.0	1225	1	US-08-603-919-1	Sequence 1, Appli
414	40.2	3.0	2246	4	US-09-083-587-3	Sequence 3, Appli	487	39.8	3.0	1414	4	US-09-501-115-5	Sequence 5, Appli
415	40.2	3.0	2311	4	US-09-800-729-66	Sequence 66, Appl	488	39.8	3.0	1461	3	US-08-722-136A-4	Sequence 4, Appli
416	40.2	3.0	2394	4	US-09-800-729-33	Sequence 33, Appl	489	39.8	3.0	1461	5	PCT-US95-04258-4	Sequence 4, Appli
417	40.2	3.0	2434	4	US-09-489-847-67	Sequence 67, Appl	490	39.8	3.0	2000	1	US-08-351-473B-1	Sequence 1, Appli
418	40.2	3.0	2438	4	US-09-393-634-4	Sequence 4, Appli	491	39.8	3.0	2187	3	US-09-127-219B-2	Sequence 2, Appli
419	40.2	3.0	2447	2	US-09-014-969-14	Sequence 14, Appl	492	39.8	3.0	2327	4	US-10-066-130-20	Sequence 20, Appli
420	40.2	3.0	4055	4	US-09-620-312D-706	Sequence 706, App	493	39.8	3.0	2674	4	US-10-066-130-19	Sequence 19, Appl
421	40	3.0	110	4	US-09-621-976-12025	Sequence 12025, A	494	39.8	3.0	2771	4	US-10-066-130-18	Sequence 18, Appl
422	40	3.0	194	4	US-09-621-976-12025	Sequence 9596, A	495	39.8	3.0	3116	4	US-09-311-021-187	Sequence 187, App
423	40	3.0	208	4	US-09-621-976-9596	Sequence 9283, Ap	496	39.8	3.0	3410	3	US-09-020-956-110	Sequence 110, App
424	40	3.0	282	4	US-09-621-976-9283	Sequence 18648, A	497	39.8	3.0	3410	3	US-09-030-607-110	Sequence 110, App
425	40	3.0	530	4	US-09-621-976-18648	Sequence 62, Appl	498	39.8	3.0	3410	3	US-09-439-313-110	Sequence 110, App
426	40	3.0	593	4	US-09-904-615-59	Sequence 59, Appl	499	39.8	3.0	3410	3	US-09-352-616A-110	Sequence 110, App
427	40	3.0	603	3	US-09-385-982-293	Sequence 293, App	500	39.8	3.0	3410	3	US-09-602-877A-100	Sequence 100, App
428	40	3.0	647	4	US-09-495-050A-54	Sequence 54, Appl	501	39.8	3.0	3410	4	US-09-232-147A-110	Sequence 110, App
429	40	3.0	796	1	US-08-104-073-2	Sequence 2, Appli	502	39.8	3.0	3410	4	US-09-159-812-110	Sequence 110, App
430	40	3.0	844	4	US-08-680-942-3	Sequence 3, Appli	503	39.8	3.0	3410	4	US-09-636-215-110	Sequence 110, App
431	40	3.0	931	4	US-09-482-273-31	Sequence 31, Appl	504	39.8	3.0	3410	4	US-09-685-166A-110	Sequence 110, App
432	40	3.0	1279	3	US-09-248-335-25	Sequence 25, Appl	505	39.8	3.0	3410	4	US-09-115-453-110	Sequence 110, App
433	40	3.0	1405	4	US-09-668-097A-15	Sequence 15, Appl	506	39.8	3.0	3410	4	US-09-688-489-110	Sequence 110, App
434	40	3.0	1454	3	US-09-372-422A-19	Sequence 19, Appl	507	39.8	3.0	3410	4	US-09-679-426-110	Sequence 110, App
435	40	3.0	1584	4	US-09-807-258-11	Sequence 11, Appl	508	39.8	3.0	3410	4	US-09-759-143-110	Sequence 110, App
436	40	3.0	1606	4	US-09-820-004-1	Sequence 1, Appli	509	39.8	3.0	3410	4	US-09-651-236-110	Sequence 110, App
437	40	3.0	1842	4	US-09-482-273-90	Sequence 90, Appl	510	39.8	3.0	5860	4	US-10-066-130-17	Sequence 17, Appl
438	40	3.0	1963	4	US-09-482-273-91	Sequence 91, Appl	511	39.8	3.0	8638	4	US-10-029-907-6	Sequence 6, Appli
439	40	3.0	1965	4	US-09-482-273-27	Sequence 27, Appl	512	39.8	3.0	8648	4	US-10-029-907-5	Sequence 5, Appli
440	40	3.0	2179	3	US-09-370-838-152	Sequence 152, App	513	39.8	3.0	8648	4	US-08-811-566-1	Sequence 1, Appli
441	40	3.0	2179	4	US-09-854-133-152	Sequence 37, Appl	514	39.8	3.0	9646	3	US-08-811-566-1	Sequence 1, Appli
442	40	3.0	2406	4	US-09-594-506-37	Sequence 16, Appl	515	39.8	3.0	9646	3	US-09-034-756-1	Sequence 5, Appli
443	40	3.0	2608	4	US-09-904-615-16	Sequence 1, Appli	516	39.8	3.0	12980	3	US-08-811-566-5	Sequence 5, Appli
444	40	3.0	2719	3	US-08-708-216-1	Sequence 1, Appli	517	39.8	3.0	12980	3	US-09-034-756-5	Sequence 5, Appli
445	40	3.0	3145	4	US-09-650-284B-1	Sequence 1149, Ap	518	39.6	3.0	212	4	US-09-621-976-1325	Sequence 1325, Ap
446	40	3.0	3238	3	US-08-123-934A-5	Sequence 5, Appli	519	39.6	3.0	337	2	US-09-032-684-11	Sequence 11, Appl
447	40	3.0	3238	5	PCT-US94-10080-5	Sequence 5, Appli	520	39.6	3.0	337	4	US-09-644-460-11	Sequence 3210, Ap
448	40	3.0	3271	4	US-09-548-797B-1	Sequence 151, App	521	39.6	3.0	771	4	US-09-902-540-3210	Sequence 75, Appl
449	40	3.0	3275	3	US-09-370-838-151	Sequence 151, App	522	39.6	3.0	831	4	US-09-205-258-75	Sequence 1, Appli
450	40	3.0	3275	4	US-09-854-133-151	Sequence 2, Appli	523	39.6	3.0	1147	1	US-08-665-716-1	Sequence 73, Appl
451	40	3.0	3390	4	US-09-548-797B-2	Sequence 7, Appli	524	39.6	3.0	1486	4	US-09-461-325-73	Sequence 73, Appl
452	40	3.0	3527	2	US-09-909-965C-7	Sequence 3, Appli	525	39.6	3.0	1486	4	US-10-012-542-73	Sequence 73, Appl
453	40	3.0	3582	4	US-09-548-797B-3	Sequence 2, Appli	526	39.6	3.0	1486	4	US-10-115-123-73	Sequence 1, Appli
454	40	3.0	3582	3	US-09-499-964-2	Sequence 7, Appli	527	39.6	3.0	1522	3	US-09-413-574-1	Sequence 21, Appl
455	40	3.0	4137	3	US-09-417-485D-7	Sequence 1, Appli	528	39.6	3.0	1761	4	US-09-369-247-21	Sequence 3, Appli
456	40	3.0	4185	4	US-09-967-908A-1	Sequence 1, Appli	529	39.6	3.0	1813	3	US-09-071-224-3	Sequence 27, Appl
457	40	3.0	6409	4	US-10-159-151-1	Sequence 102, App	530	39.6	3.0	1872	3	US-09-291-922-27	Sequence 9, Appli
458	40	3.0	6409	4	US-09-702-705-102	Sequence 102, App	531	39.6	3.0	2202	3	US-09-465-558-59	Sequence 9, Appli
459	40	3.0	199	4	US-09-736-457-102	Sequence 102, App	532	39.6	3.0	2360	4	US-08-836-567-9	Sequence 9, Appli
460	39.8	3.0	199	4	US-09-614-1248-102	Sequence 102, App	533	39.6	3.0	2360	4	US-09-606-304-9	Sequence 1801, Ap
461	39.8	3.0	199	4	US-09-671-325-102	Sequence 102, App	534	39.6	3.0	4086	4	US-09-736-457-1801	Sequence 1801, Ap
462	39.8	3.0	199	4	US-09-589-184-102	Sequence 102, App	535	39.6	3.0	4086	4	US-09-053-866-1	Sequence 1, Appli
463	39.8	3.0	199	4	US-09-658-824-102	Sequence 102, App	536	39.6	3.0	4895	3	US-09-479-130-1	Sequence 1, Appli
464	39.8	3.0	199	4			537	39.6	3.0	4895	3		
465	39.8	3.0	199	4			538	39.6	3.0	4895	3		

539	39.6	3.0	4895	4	US-09-472-130A-1	Sequence 1, Appli	612	39.4	3.0	10640	4	US-09-417-485D-5	Sequence 5, Appli
540	39.6	3.0	19455	4	US-09-902-540-1147	Sequence 1147, Ap	613	39.4	3.0	37068	4	US-09-949-016-12543	Sequence 12543, A
541	39.4	3.0	69	4	US-09-621-976-11887	Sequence 11887, A	614	39.4	3.0	37068	4	US-09-949-016-17376	Sequence 17376, A
542	39.4	3.0	69	4	US-09-621-976-12454	Sequence 12454, A	c 615	39.4	3.0	37711	4	US-09-949-016-12832	Sequence 12832, A
543	39.4	3.0	70	4	US-09-621-976-12440	Sequence 12440, A	c 616	39.4	3.0	37712	4	US-09-949-016-16704	Sequence 16704, A
544	39.4	3.0	72	4	US-09-621-976-12390	Sequence 12390, A	617	39.4	3.0	41736	4	US-09-949-016-17091	Sequence 17091, A
545	39.4	3.0	77	4	US-09-621-976-12266	Sequence 12266, A	618	39.4	3.0	164	4	US-09-621-976-16692	Sequence 16692, A
546	39.4	3.0	81	4	US-09-621-976-12198	Sequence 12198, A	619	39.2	2.9	165	4	US-09-621-976-15127	Sequence 15127, A
547	39.4	3.0	81	4	US-09-621-976-13601	Sequence 13601, A	620	39.2	2.9	240	4	US-09-621-976-1324	Sequence 1324, Ap
548	39.4	3.0	82	4	US-09-621-976-11689	Sequence 11689, A	621	39.2	2.9	249	4	US-09-621-976-1322	Sequence 1322, Ap
549	39.4	3.0	82	4	US-09-621-976-11841	Sequence 11841, A	622	39.2	2.9	319	1	US-07-593-657-14	Sequence 14, Appl
550	39.4	3.0	82	4	US-09-621-976-11864	Sequence 11864, A	623	39.2	2.9	373	4	US-09-621-976-17213	Sequence 17213, A
551	39.4	3.0	82	4	US-09-621-976-11888	Sequence 11888, A	624	39.2	2.9	554	4	US-09-896-169A-14	Sequence 14, Appl
552	39.4	3.0	82	4	US-09-621-976-11944	Sequence 11944, A	625	39.2	2.9	585	4	US-09-589-733C-6	Sequence 6, Appli
553	39.4	3.0	82	4	US-09-621-976-11949	Sequence 11949, A	c 626	39.2	2.9	599	3	US-09-328-111-147	Sequence 117, App
554	39.4	3.0	82	4	US-09-621-976-12015	Sequence 12015, A	627	39.2	2.9	1036	4	US-09-205-258-86	Sequence 86, Appl
555	39.4	3.0	82	4	US-09-621-976-12088	Sequence 12088, A	628	39.2	2.9	1049	4	US-09-311-021-49	Sequence 49, Appl
556	39.4	3.0	82	4	US-09-621-976-12103	Sequence 12103, A	629	39.2	2.9	1092	3	US-09-227-357-35	Sequence 35, Appl
557	39.4	3.0	82	4	US-09-621-976-12127	Sequence 12127, A	630	39.2	2.9	1151	4	US-09-270-767-12633	Sequence 12633, A
558	39.4	3.0	82	4	US-09-621-976-12131	Sequence 12131, A	631	39.2	2.9	1241	1	US-07-593-657-6	Sequence 6, Appli
559	39.4	3.0	82	4	US-09-621-976-12137	Sequence 12137, A	632	39.2	2.9	1241	3	US-08-942-012B-3	Sequence 3, Appli
560	39.4	3.0	82	4	US-09-621-976-12322	Sequence 12322, A	633	39.2	2.9	1359	3	US-09-387-574-11	Sequence 11, Appl
561	39.4	3.0	82	4	US-09-621-976-13499	Sequence 13499, A	634	39.2	2.9	1359	3	US-09-668-096-11	Sequence 11, Appl
562	39.4	3.0	82	4	US-09-621-976-13526	Sequence 13526, A	635	39.2	2.9	1458	4	US-09-482-273-14	Sequence 14, Appl
563	39.4	3.0	83	4	US-09-621-976-12087	Sequence 12087, A	636	39.2	2.9	1810	4	US-09-800-729-73	Sequence 73, Appl
564	39.4	3.0	83	4	US-09-621-976-12175	Sequence 12175, A	637	39.2	2.9	1811	4	US-09-800-729-77	Sequence 77, Appl
565	39.4	3.0	83	4	US-09-621-976-12195	Sequence 12195, A	638	39.2	2.9	2075	4	US-09-461-325-130	Sequence 130, App
566	39.4	3.0	83	4	US-09-621-976-12429	Sequence 12429, A	639	39.2	2.9	2075	4	US-10-012-542-130	Sequence 130, App
567	39.4	3.0	83	4	US-09-621-976-12450	Sequence 12450, A	640	39.2	2.9	2075	4	US-10-115-123-130	Sequence 130, App
568	39.4	3.0	84	4	US-09-621-976-11710	Sequence 11710, A	641	39.2	2.9	2296	3	US-08-496-841C-137	Sequence 137, App
569	39.4	3.0	91	4	US-09-621-976-12161	Sequence 12161, A	642	39.2	2.9	2301	3	US-09-232-191-8	Sequence 8, Appli
570	39.4	3.0	98	4	US-09-621-976-11744	Sequence 11744, A	643	39.2	2.9	2301	3	US-09-232-200-8	Sequence 8, Appli
571	39.4	3.0	106	4	US-09-621-976-12079	Sequence 12079, A	644	39.2	2.9	2301	3	US-09-232-197-8	Sequence 8, Appli
c 572	39.4	3.0	396	4	US-09-640-173-16	Sequence 16, Appl	645	39.2	2.9	2301	3	US-09-232-201-8	Sequence 8, Appli
c 573	39.4	3.0	396	4	US-09-713-550-16	Sequence 16, Appl	646	39.2	2.9	2301	4	US-09-232-195-8	Sequence 8, Appli
c 574	39.4	3.0	396	4	US-09-825-294-16	Sequence 16, Appl	647	39.2	2.9	2409	3	US-09-232-222C-8	Sequence 8, Appli
c 575	39.4	3.0	396	4	US-09-970-366-16	Sequence 16, Appl	648	39.2	2.9	2409	3	US-09-839-497A-8	Sequence 8, Appli
576	39.4	3.0	708	4	US-09-270-767-13081	Sequence 13081, A	649	39.2	2.9	2710	3	US-09-232-200-44	Sequence 44, Appl
577	39.4	3.0	857	1	US-08-308-883-1	Sequence 1, Appli	650	39.2	2.9	2710	3	US-09-232-200-70	Sequence 70, Appl
578	39.4	3.0	857	1	US-08-730-163-1	Sequence 1, Appli	651	39.2	2.9	2710	3	US-09-232-200-70	Sequence 44, Appl
579	39.4	3.0	857	3	US-08-256-799-1	Sequence 1, Appli	652	39.2	2.9	2710	3	US-09-232-197-44	Sequence 44, Appl
580	39.4	3.0	857	3	US-08-462-437-1	Sequence 1, Appli	653	39.2	2.9	2710	3	US-09-232-197-70	Sequence 70, Appl
581	39.4	3.0	882	4	US-09-311-021-107	Sequence 107, App	654	39.2	2.9	2710	3	US-09-232-201-44	Sequence 44, Appl
c 582	39.4	3.0	1024	4	US-09-328-475C-37	Sequence 37, Appl	655	39.2	2.9	2710	3	US-09-232-195-44	Sequence 44, Appl
583	39.4	3.0	1046	1	US-08-361-467B-4	Sequence 4, Appli	656	39.2	2.9	2710	4	US-09-232-195-70	Sequence 70, Appl
584	39.4	3.0	1046	1	US-08-484-332C-4	Sequence 4, Appli	657	39.2	2.9	2808	4	US-09-917-254-27	Sequence 27, Appl
585	39.4	3.0	1074	3	US-09-248-335-67	Sequence 67, Appl	c 658	39.2	2.9	3771	1	US-08-185-432-3	Sequence 3, Appli
586	39.4	3.0	1193	3	US-09-372-422A-23	Sequence 23, Appli	659	39.2	2.9	3771	1	US-08-185-432-23	Sequence 23, Appl
587	39.4	3.0	1210	4	US-09-720-318A-3	Sequence 3, Appli	660	39.2	2.9	3975	4	US-09-270-767-3	Sequence 3, Appli
c 588	39.4	3.0	1332	4	US-09-252-991A-2529	Sequence 2529, Ap	c 661	39.2	2.9	5063	1	US-08-185-432-1	Sequence 1, Appli
589	39.4	3.0	1440	4	US-09-252-991A-2305	Sequence 2305, Ap	662	39.2	2.9	5555	1	US-08-484-438-3	Sequence 3, Appli
590	39.4	3.0	1443	4	US-09-252-991A-2390	Sequence 2390, Ap	c 663	39.2	2.9	64309	4	US-09-949-016-14581	Sequence 14581, A
591	39.4	3.0	1559	4	US-09-489-847-42	Sequence 42, Appl	664	39	2.9	82	4	US-09-621-976-12368	Sequence 12368, A
592	39.4	3.0	1821	3	US-09-149-476-90	Sequence 90, Appl	665	39	2.9	120	1	US-08-153-051B-28	Sequence 28, Appl
593	39.4	3.0	1856	4	US-09-644-460-32	Sequence 32, Appl	666	39	2.9	120	1	US-08-060-952C-44	Sequence 44, Appl
594	39.4	3.0	1950	4	US-09-640-419C-1	Sequence 1, Appli	667	39	2.9	120	1	US-08-151-477A-28	Sequence 28, Appl
595	39.4	3.0	2082	2	US-08-785-310A-2	Sequence 2, Appli	668	39	2.9	120	3	US-08-819-867-58	Sequence 58, Appl
596	39.4	3.0	2205	3	US-08-888-077A-41	Sequence 41, Appl	669	39	2.9	120	3	US-08-464-011B-44	Sequence 44, Appl
597	39.4	3.0	2469	4	US-09-849-334-1	Sequence 1, Appli	670	39	2.9	120	4	US-09-378-535-58	Sequence 58, Appl
598	39.4	3.0	2469	4	US-10-274-878-1	Sequence 1, Appli	671	39	2.9	246	4	US-09-621-976-13617	Sequence 13617, A
599	39.4	3.0	2469	4	US-10-697-266-1	Sequence 1, Appli	672	39	2.9	270	4	US-09-621-976-17927	Sequence 17927, A
600	39.4	3.0	2527	4	US-09-244-805-29	Sequence 29, Appl	673	39	2.9	342	2	US-09-902-540-9208	Sequence 24, Appl
601	39.4	3.0	2603	4	US-09-949-016-966	Sequence 966, App	674	39	2.9	374	2	US-08-370-156-24	Sequence 24, Appl
602	39.4	3.0	2763	4	US-09-575-081B-11	Sequence 11, Appl	c 675	39	2.9	537	4	US-09-720-201A-4	Sequence 4, Appli
603	39.4	3.0	3080	3	US-09-099-081A-25	Sequence 25, Appl	c 676	39	2.9	644	4	US-09-720-201A-6	Sequence 6, Appli
604	39.4	3.0	3080	3	US-09-245-281-25	Sequence 25, Appl	c 677	39	2.9	703	3	US-09-313-300-6	Sequence 6, Appli
605	39.4	3.0	3080	3	US-09-207-359B-25	Sequence 25, Appl	678	39	2.9	731	1	US-08-451-405A-2	Sequence 2, Appli
606	39.4	3.0	3080	4	US-09-340-620A-25	Sequence 25, Appl	679	39	2.9	880	3	US-09-247-373B-39	Sequence 39, Appl
607	39.4	3.0	3080	4	US-09-865-364-25	Sequence 25, Appl	680	39	2.9	1215	2	US-08-370-156-26	Sequence 26, Appl
608	39.4	3.0	5325	4	US-10-164-595-17	Sequence 17, Appl	681	39	2.9	1546	4	US-09-901-151-1	Sequence 1, Appli
609	39.4	3.0	5334	4	US-10-164-595-21	Sequence 21, Appl	682	39	2.9	1584	3	US-08-745-995A-1	Sequence 1, Appli
610	39.4	3.0	5581	4	US-10-164-595-19	Sequence 19, Appl	c 683	39	2.9	1584	3	US-08-745-995A-3	Sequence 1, Appli
611	39.4	3.0	5893	2	US-08-687-080-44	Sequence 44, Appl	684	39	2.9	1584	4	US-09-005-352-1	Sequence 1, Appli

C 685	39	2.9	1584	4	US-09-005-352-3	Sequence 3, Appli	758	38.8	2.9	2040	4	US-09-685-166A-375	Sequence 375, App
C 686	39	2.9	1733	3	US-09-073-569-1	Sequence 1, Appli	759	38.8	2.9	2040	4	US-09-429-755-303	Sequence 303, App
C 687	39	2.9	1872	4	US-09-801-052-1	Sequence 1, Appli	760	38.8	2.9	2040	4	US-09-679-426-375	Sequence 375, App
C 688	39	2.9	1872	4	US-10-020-121-1	Sequence 1, Appli	761	38.8	2.9	2040	4	US-09-759-143-375	Sequence 375, App
C 689	39	2.9	1927	3	US-09-336-536-66	Sequence 66, Appli	762	38.8	2.9	2040	4	US-09-651-236-375	Sequence 303, App
C 690	39	2.9	1964	1	US-08-132-168A-31	Sequence 31, Appli	763	38.8	2.9	2040	4	US-09-699-235-303	Sequence 303, App
C 691	39	2.9	2065	3	US-08-370-473-5	Sequence 5, Appli	764	38.8	2.9	2044	4	US-09-949-016-646	Sequence 646, App
C 692	39	2.9	2146	4	US-10-003-392-3	Sequence 3, Appli	765	38.8	2.9	3375	3	US-09-511-625B-67	Sequence 67, Appli
C 693	39	2.9	2256	2	US-08-318-826A-5	Sequence 5, Appli	766	38.8	2.9	3605	4	US-09-949-016-36	Sequence 36, Appli
C 694	39	2.9	2256	2	US-08-370-156-1	Sequence 1, Appli	767	38.8	2.9	3605	4	US-09-001-039B-44	Sequence 15755, A
C 695	39	2.9	2319	4	US-08-814-095-1	Sequence 1, Appli	768	38.8	2.9	12449	4	US-09-949-016-14003	Sequence 14003, A
C 696	39	2.9	2648	3	US-09-805-455-1	Sequence 1, Appli	769	38.6	2.9	115	4	US-09-621-976-16833	Sequence 16833, A
C 697	39	2.9	2648	3	US-09-417-455-6	Sequence 6, Appli	770	38.6	2.9	140	4	US-09-621-976-16834	Sequence 16834, A
C 698	39	2.9	2648	3	US-09-457-626-6	Sequence 6, Appli	771	38.6	2.9	141	4	US-09-621-976-16834	Sequence 16834, A
C 699	39	2.9	2648	3	US-09-457-626-6	Sequence 6, Appli	772	38.6	2.9	299	4	US-09-621-976-16135	Sequence 16135, A
C 700	39	2.9	2648	4	US-09-576-008-6	Sequence 6, Appli	773	38.6	2.9	341	4	US-09-621-976-16135	Sequence 16135, A
C 701	39	2.9	2655	3	US-08-971-089-5	Sequence 5, Appli	774	38.6	2.9	505	4	US-08-469-802B-7	Sequence 7, Appli
C 702	39	2.9	2677	4	US-09-733-643B-1	Sequence 1, Appli	775	38.6	2.9	506	1	US-08-267-803B-7	Sequence 7, Appli
C 703	39	2.9	3016	2	US-08-318-826A-7	Sequence 7, Appli	776	38.6	2.9	506	2	US-08-267-803B-7	Sequence 13552, A
C 704	39	2.9	3016	2	US-08-370-156-5	Sequence 5, Appli	777	38.6	2.9	1045	4	US-09-270-767-12552	Sequence 219, App
C 705	39	2.9	3016	3	US-08-814-095-5	Sequence 5, Appli	778	38.6	2.9	1293	3	US-09-370-838-219	Sequence 219, App
C 706	39	2.9	3096	2	US-08-318-826A-6	Sequence 6, Appli	779	38.6	2.9	1293	4	US-09-854-133-219	Sequence 133, App
C 707	39	2.9	3096	2	US-08-370-156-3	Sequence 3, Appli	780	38.6	2.9	1305	3	US-09-242-859A-3	Sequence 3, Appli
C 708	39	2.9	3096	3	US-08-814-095-3	Sequence 3, Appli	781	38.6	2.9	1305	3	US-09-242-859A-7	Sequence 7, Appli
C 709	39	2.9	7125	4	US-09-949-016-12359	Sequence 12359, A	782	38.6	2.9	1323	3	US-09-413-422-3	Sequence 3, Appli
C 710	39	2.9	7156	4	US-09-949-016-16710	Sequence 16710, A	783	38.6	2.9	1323	3	US-09-413-422-3	Sequence 3, Appli
C 711	39	2.9	7286	3	US-09-331-581-13	Sequence 13, Appli	784	38.6	2.9	1707	4	US-09-413-422-3	Sequence 51, Appli
C 712	39	2.9	7938	3	US-09-331-581-14	Sequence 14, Appli	785	38.6	2.9	1720	3	US-09-227-357-139	Sequence 139, App
C 713	39	2.9	10301	4	US-09-902-540-985	Sequence 985, App	786	38.6	2.9	1798	2	US-08-557-128-12	Sequence 12, Appli
C 714	39	2.9	72549	4	US-09-949-016-16477	Sequence 16477, A	787	38.6	2.9	1835	3	US-09-485-549-1	Sequence 1, Appli
C 715	39	2.9	76610	4	US-09-949-016-15521	Sequence 15521, A	788	38.6	2.9	1998	3	US-09-232-191-68	Sequence 68, Appli
C 716	38.8	2.9	165	3	US-09-043-303-17	Sequence 17, Appli	789	38.6	2.9	1998	3	US-09-232-191-68	Sequence 68, Appli
C 717	38.8	2.9	188	4	US-09-621-976-10364	Sequence 10364, A	790	38.6	2.9	1998	3	US-09-232-191-68	Sequence 68, Appli
C 718	38.8	2.9	413	3	US-09-328-107-25	Sequence 25, Appli	791	38.6	2.9	1998	3	US-09-232-191-68	Sequence 68, Appli
C 719	38.8	2.9	486	4	US-09-639-211-13	Sequence 13, Appli	792	38.6	2.9	1998	3	US-09-232-191-68	Sequence 68, Appli
C 720	38.8	2.9	567	4	US-09-270-767-14141	Sequence 14141, A	793	38.6	2.9	2087	3	US-09-232-200-6	Sequence 6, Appli
C 721	38.8	2.9	730	4	US-09-270-767-14600	Sequence 14600, A	794	38.6	2.9	2087	3	US-09-232-200-6	Sequence 6, Appli
C 722	38.8	2.9	857	3	US-08-460-040-1	Sequence 1, Appli	795	38.6	2.9	2087	3	US-09-232-201-6	Sequence 6, Appli
C 723	38.8	2.9	864	4	US-09-270-767-14160	Sequence 14160, A	796	38.6	2.9	2087	3	US-09-232-201-6	Sequence 6, Appli
C 724	38.8	2.9	888	1	US-09-173-510B-99	Sequence 99, Appli	797	38.6	2.9	2087	3	US-09-232-195-68	Sequence 31, Appli
C 725	38.8	2.9	888	1	US-08-458-218-97	Sequence 97, Appli	798	38.6	2.9	2095	3	US-09-227-357-31	Sequence 12140, A
C 726	38.8	2.9	888	2	US-08-450-497-99	Sequence 99, Appli	799	38.6	2.9	2192	4	US-09-270-767-12140	Sequence 7, Appli
C 727	38.8	2.9	888	4	US-08-450-482B-99	Sequence 99, Appli	800	38.6	2.9	2407	3	US-09-370-807-7	Sequence 7, Appli
C 728	38.8	2.9	991	3	US-08-924-747-25	Sequence 25, Appli	801	38.6	2.9	2407	3	US-09-921-259-7	Sequence 5, Appli
C 729	38.8	2.9	991	3	US-09-247-373B-25	Sequence 25, Appli	802	38.6	2.9	2428	4	US-09-731-166-5	Sequence 24, Appli
C 730	38.8	2.9	991	3	US-09-296-715-25	Sequence 25, Appli	803	38.6	2.9	2836	3	US-08-747-221B-24	Sequence 24, Appli
C 731	38.8	2.9	1133	4	US-09-916-204-1	Sequence 1, Appli	804	38.6	2.9	2836	3	US-08-747-221B-26	Sequence 26, Appli
C 732	38.8	2.9	1133	4	US-10-282-048-1	Sequence 101, App	805	38.6	2.9	2836	3	US-09-005-051-24	Sequence 24, Appli
C 733	38.8	2.9	1248	4	US-09-489-847-101	Sequence 12, Appli	806	38.6	2.9	2836	3	US-09-005-051-26	Sequence 26, Appli
C 734	38.8	2.9	1448	3	US-09-387-212-12	Sequence 12, Appli	807	38.6	2.9	2836	4	US-09-403-942F-24	Sequence 24, Appli
C 735	38.8	2.9	1448	3	US-09-948-802-12	Sequence 3, Appli	808	38.6	2.9	2836	4	US-09-403-942F-26	Sequence 26, Appli
C 736	38.8	2.9	1602	1	US-08-530-950-3	Sequence 3, Appli	809	38.6	2.9	2836	4	US-07-946-497-1	Sequence 1, Appli
C 737	38.8	2.9	1602	3	US-08-888-428A-3	Sequence 3, Appli	810	38.6	2.9	3207	1	US-08-483-322-1	Sequence 1, Appli
C 738	38.8	2.9	1602	3	US-09-149-879-3	Sequence 3, Appli	811	38.6	2.9	3207	2	US-08-478-882-1	Sequence 1, Appli
C 739	38.8	2.9	1602	4	US-09-057-009-3	Sequence 3, Appli	812	38.6	2.9	3268	4	US-09-688-188B-1	Sequence 1, Appli
C 740	38.8	2.9	1602	4	US-09-593-653-3	Sequence 3, Appli	813	38.6	2.9	3268	4	US-09-291-417D-1	Sequence 1, Appli
C 741	38.8	2.9	1810	4	US-09-369-247-11	Sequence 11, Appli	814	38.6	2.9	3366	2	US-08-469-802B-1	Sequence 1, Appli
C 742	38.8	2.9	2000	3	US-09-439-313-374	Sequence 374, App	815	38.6	2.9	3366	2	US-08-267-803B-1	Sequence 1, Appli
C 743	38.8	2.9	2000	3	US-09-352-616A-374	Sequence 374, App	816	38.6	2.9	3848	3	US-09-112-096-28	Sequence 187, App
C 744	38.8	2.9	2000	4	US-09-289-198-302	Sequence 302, App	817	38.6	2.9	3848	3	US-09-620-312D-187	Sequence 187, App
C 745	38.8	2.9	2000	4	US-09-636-215-374	Sequence 374, App	818	38.6	2.9	4419	4	US-09-112-096-14	Sequence 777, App
C 746	38.8	2.9	2000	4	US-09-429-755-302	Sequence 302, App	819	38.6	2.9	5668	3	US-09-636-215-777	Sequence 777, App
C 747	38.8	2.9	2000	4	US-09-685-166A-374	Sequence 374, App	820	38.6	2.9	5668	4	US-09-685-166A-777	Sequence 777, App
C 748	38.8	2.9	2000	4	US-09-429-755-302	Sequence 302, App	821	38.6	2.9	5668	4	US-09-679-426-777	Sequence 777, App
C 749	38.8	2.9	2000	4	US-09-679-426-374	Sequence 374, App	822	38.6	2.9	5668	4	US-09-679-426-777	Sequence 777, App
C 750	38.8	2.9	2000	4	US-09-759-143-374	Sequence 374, App	823	38.6	2.9	5668	4	US-09-759-143-777	Sequence 777, App
C 751	38.8	2.9	2000	4	US-09-651-236-374	Sequence 302, App	824	38.6	2.9	6671	1	US-09-651-236-777	Sequence 1, Appli
C 752	38.8	2.9	2000	4	US-09-699-293-302	Sequence 302, App	825	38.6	2.9	6671	1	US-08-280-443-1	Sequence 1, Appli
C 753	38.8	2.9	2013	4	US-09-596-196-3	Sequence 21, Appli	826	38.6	2.9	6671	1	US-08-457-459-1	Sequence 1, Appli
C 754	38.8	2.9	2013	4	US-09-291-922-21	Sequence 21, Appli	827	38.6	2.9	6671	5	PCT-US95-02275-1	Sequence 1, Appli
C 755	38.8	2.9	2040	3	US-09-439-313-375	Sequence 375, App	828	38.6	2.9	6804	4	US-08-956-171B-365	Sequence 365, App
C 756	38.8	2.9	2040	3	US-09-352-616A-375	Sequence 375, App	829	38.6	2.9	6804	4	US-08-781-868A-365	Sequence 365, App
C 757	38.8	2.9	2040	4	US-09-289-198-303	Sequence 303, App	830	38.6	2.9	10660	2	US-08-267-803B-8	Sequence 8, Appli

C 831	38.6	2.9	10660	3	US-09-041-886-16	Sequence 16, Appl	904	38.2	2.9	246	4	US-09-621-976-16288	Sequence 16288, A
C 832	38.4	2.9	87	4	US-09-621-976-14560	Sequence 14560, A	905	38.2	2.9	249	4	US-09-621-976-16291	Sequence 16291, A
C 833	38.4	2.9	127	4	US-09-621-976-13933	Sequence 13933, A	906	38.2	2.9	249	4	US-09-621-976-16292	Sequence 16292, A
C 834	38.4	2.9	183	4	US-09-621-976-13606	Sequence 13606, A	907	38.2	2.9	259	4	US-09-621-976-16294	Sequence 16294, A
C 835	38.4	2.9	208	4	US-09-621-976-16394	Sequence 16394, A	908	38.2	2.9	261	4	US-09-621-976-17608	Sequence 17608, A
C 836	38.4	2.9	260	2	US-08-520-678A-29	Sequence 29, Appl	909	38.2	2.9	316	4	US-09-513-999C-838	Sequence 838, App
C 837	38.4	2.9	260	3	US-08-897-126-29	Sequence 29, Appl	910	38.2	2.9	319	4	US-09-621-976-16055	Sequence 16055, A
C 838	38.4	2.9	266	4	US-09-621-976-16813	Sequence 16813, A	911	38.2	2.9	336	4	US-09-621-976-16581	Sequence 16581, A
C 839	38.4	2.9	331	4	US-09-621-976-16100	Sequence 16100, A	912	38.2	2.9	330	4	US-09-621-976-15352	Sequence 15352, A
C 840	38.4	2.9	334	2	US-09-032-684-8	Sequence 8, Appl	913	38.2	2.9	469	4	US-09-621-976-16332	Sequence 16332, Ap
C 841	38.4	2.9	334	4	US-09-644-460-8	Sequence 8, Appl	914	38.2	2.9	472	4	US-09-370-767-12212	Sequence 12212, A
C 842	38.4	2.9	458	1	US-08-524-757-1	Sequence 1, Appl	915	38.2	2.9	588	4	US-09-205-258-64	Sequence 64, Appl
C 843	38.4	2.9	547	1	US-08-131-365B-41	Sequence 41, Appl	916	38.2	2.9	687	4	US-09-774-639-45	Sequence 45, Appl
C 844	38.4	2.9	547	2	US-08-668-123-41	Sequence 41, Appl	917	38.2	2.9	830	1	US-08-668-609-1	Sequence 1, Appl
C 845	38.4	2.9	550	4	US-09-010-147B-5	Sequence 5, Appl	918	38.2	2.9	830	3	US-09-002-832-1	Sequence 1, Appl
C 846	38.4	2.9	646	3	US-09-288-143-22	Sequence 22, Appl	919	38.2	2.9	940	2	US-08-471-717-1	Sequence 21, Appl
C 847	38.4	2.9	674	4	US-09-620-405B-465	Sequence 465, App	920	38.2	2.9	980	3	US-09-452-239-21	Sequence 21, Appl
C 848	38.4	2.9	674	4	US-09-433-826B-465	Sequence 465, App	921	38.2	2.9	1141	4	US-09-800-729-78	Sequence 78, Appl
C 849	38.4	2.9	674	4	US-09-604-287A-465	Sequence 465, App	922	38.2	2.9	1166	5	PCT-US96-12129B-1	Sequence 1, Appl
C 850	38.4	2.9	674	4	US-09-834-759-465	Sequence 465, App	923	38.2	2.9	1288	4	US-09-205-258-125	Sequence 125, App
C 851	38.4	2.9	674	4	US-09-590-751A-465	Sequence 465, App	924	38.2	2.9	1308	4	US-10-151-832-1	Sequence 1, Appl
C 852	38.4	2.9	674	4	US-09-551-621-465	Sequence 465, App	925	38.2	2.9	1397	4	US-09-270-767-11144	Sequence 11144, A
C 853	38.4	2.9	695	3	US-09-404-879A-212	Sequence 212, App	926	38.2	2.9	1544	4	US-09-187-999-14	Sequence 14, Appl
C 854	38.4	2.9	695	4	US-09-338-933-212	Sequence 212, App	927	38.2	2.9	1558	1	US-08-455-550-7	Sequence 7, Appl
C 855	38.4	2.9	695	4	US-09-215-681-212	Sequence 212, App	928	38.2	2.9	1766	4	US-09-304-615-29	Sequence 29, Appl
C 856	38.4	2.9	695	4	US-09-216-003A-212	Sequence 212, App	929	38.2	2.9	1813	5	PCT-US94-12883-3	Sequence 3, Appl
C 857	38.4	2.9	695	4	US-09-667-857-212	Sequence 212, App	930	38.2	2.9	1835	4	US-09-564-808-5	Sequence 5, Appl
C 858	38.4	2.9	801	4	US-10-039-659A-5	Sequence 5, Appl	931	38.2	2.9	1898	1	US-08-342-411A-1	Sequence 1, Appl
C 859	38.4	2.9	941	4	US-09-205-258-186	Sequence 186, App	932	38.2	2.9	2003	4	US-09-665-479A-1	Sequence 1, Appl
C 860	38.4	2.9	1024	4	US-09-328-475C-50	Sequence 50, Appl	933	38.2	2.9	2262	4	US-09-311-021-171	Sequence 171, App
C 861	38.4	2.9	1065	4	US-09-976-594-833	Sequence 833, App	934	38.2	2.9	2291	4	US-09-420-132-114	Sequence 114, App
C 862	38.4	2.9	1648	4	US-09-809-545A-65	Sequence 65, Appl	935	38.2	2.9	2291	4	US-09-814-915A-95	Sequence 95, Appl
C 863	38.4	2.9	1670	4	US-09-023-655-980	Sequence 980, App	936	38.2	2.9	2581	3	US-09-363-708-1	Sequence 1, Appl
C 864	38.4	2.9	1696	4	US-09-835-811-1	Sequence 1, Appl	937	38.2	2.9	2581	4	US-09-083-587-1	Sequence 1, Appl
C 865	38.4	2.9	1728	3	US-08-985-950-7	Sequence 7, Appl	938	38.2	2.9	2610	3	US-09-545-814-1	Sequence 1, Appl
C 866	38.4	2.9	1781	4	US-09-546-049-7	Sequence 7, Appl	939	38.2	2.9	2610	3	US-09-545-814-3	Sequence 3, Appl
C 867	38.4	2.9	1888	3	US-09-029-348-20	Sequence 20, Appl	C 940	38.2	2.9	3376	1	US-08-320-559-29	Sequence 29, Appl
C 868	38.4	2.9	1926	3	US-09-249-585A-4	Sequence 4, Appl	C 941	38.2	2.9	3376	3	US-08-545-860D-29	Sequence 29, Appl
C 869	38.4	2.9	1931	2	US-09-130-114-2	Sequence 2, Appl	C 942	38.2	2.9	3376	5	PCT-US94-04496-29	Sequence 29, Appl
C 870	38.4	2.9	1995	2	US-08-425-069-3	Sequence 3, Appl	C 943	38.2	2.9	3438	4	US-10-164-595-29	Sequence 29, Appl
C 871	38.4	2.9	1995	2	US-08-317-84B-3	Sequence 3, Appl	944	38.2	2.9	3722	4	US-10-164-595-9	Sequence 9, Appl
C 872	38.4	2.9	2026	4	US-09-650-454-30	Sequence 30, Appl	945	38.2	2.9	3852	4	US-10-164-595-5	Sequence 5, Appl
C 873	38.4	2.9	2214	4	US-09-684-405-10	Sequence 10, Appl	946	38.2	2.9	3937	4	US-10-164-595-7	Sequence 7, Appl
C 874	38.4	2.9	2242	4	US-09-482-273-35	Sequence 35, Appl	947	38.2	2.9	3985	4	US-10-164-595-3	Sequence 3, Appl
C 875	38.4	2.9	2311	4	US-09-720-317A-19	Sequence 19, Appl	948	38.2	2.9	6065	4	US-09-800-729-35	Sequence 35, Appl
C 876	38.4	2.9	2381	1	US-08-021-608D-9	Sequence 9, Appl	C 949	38.2	2.9	7989	4	US-09-539-601-10	Sequence 10, Appl
C 877	38.4	2.9	2381	5	PCT-US94-01782-9	Sequence 9, Appl	C 950	38.2	2.9	8001	4	US-09-539-601-7	Sequence 7, Appl
C 878	38.4	2.9	2381	1	US-08-021-608D-1	Sequence 1, Appl	C 951	38.2	2.9	8001	4	US-09-539-601-16	Sequence 16, Appl
C 879	38.4	2.9	2384	1	US-08-726-160-1	Sequence 1, Appl	C 952	38.2	2.9	8001	4	US-09-539-601-22	Sequence 22, Appl
C 880	38.4	2.9	2384	1	PCT-US94-01782-1	Sequence 1, Appl	C 953	38.2	2.9	8001	4	US-09-539-601-28	Sequence 28, Appl
C 881	38.4	2.9	2384	5	US-08-680-395-4	Sequence 4, Appl	C 954	38.2	2.9	8637	4	US-10-029-907-7	Sequence 7, Appl
C 882	38.4	2.9	2605	4	US-08-892-695-4	Sequence 4, Appl	C 955	38.2	2.9	8638	4	US-10-029-907-24	Sequence 24, Appl
C 883	38.4	2.9	2605	4	US-08-143-219-1	Sequence 1, Appl	C 956	38.2	2.9	8638	4	US-10-029-907-25	Sequence 25, Appl
C 884	38.4	2.9	2628	1	US-09-071-101-1	Sequence 1, Appl	C 957	38.2	2.9	8638	4	US-10-029-907-1	Sequence 1, Appl
C 885	38.4	2.9	2744	3	US-09-369-618-1	Sequence 1, Appl	C 958	38.2	2.9	8642	4	US-10-029-907-2	Sequence 2, Appl
C 886	38.4	2.9	2744	3	US-09-668-119-2	Sequence 2, Appl	C 959	38.2	2.9	8642	4	US-09-539-601-13	Sequence 13, Appl
C 887	38.4	2.9	2744	3	US-09-668-119-2	Sequence 2, Appl	C 960	38.2	2.9	8649	4	US-09-539-601-19	Sequence 19, Appl
C 888	38.4	2.9	3334	4	US-09-126-587C-8	Sequence 8, Appl	C 961	38.2	2.9	11076	4	US-09-539-601-25	Sequence 25, Appl
C 889	38.4	2.9	4032	1	US-09-949-016-525	Sequence 525, App	C 962	38.2	2.9	11076	4	US-09-539-601-31	Sequence 31, Appl
C 890	38.4	2.9	4827	4	US-08-592-126-54	Sequence 54, Appl	C 963	38.2	2.9	11076	4	US-09-539-601-31	Sequence 31, Appl
C 891	38.4	2.9	5893	1	US-09-168-595-54	Sequence 54, Appl	C 964	38.2	2.9	11076	4	US-09-539-601-31	Sequence 31, Appl
C 892	38.4	2.9	5893	4	US-09-949-016-13584	Sequence 13584, A	C 965	38.2	2.9	1604	4	US-09-621-976-10335	Sequence 10335, A
C 893	38.4	2.9	15252	4	US-09-949-016-13584	Sequence 13584, A	C 966	38.2	2.9	1604	4	US-09-621-976-10335	Sequence 10335, A
C 894	38.4	2.9	43676	3	US-09-356-952-12	Sequence 12, Appl	C 967	38.2	2.9	163	4	US-09-621-976-9608	Sequence 9608, Ap
C 895	38.4	2.9	96845	4	US-09-949-016-13658	Sequence 13658, A	C 968	38.2	2.9	163	4	US-09-621-976-16632	Sequence 16632, A
C 896	38.4	2.9	211049	4	US-09-949-016-15770	Sequence 15770, A	C 969	38.2	2.9	233	4	US-09-621-976-16058	Sequence 16058, A
C 897	38.2	2.9	157	4	US-09-621-976-16781	Sequence 16781, A	C 970	38.2	2.9	357	4	US-09-621-976-16058	Sequence 16058, A
C 898	38.2	2.9	189	4	US-09-621-976-14761	Sequence 14761, A	C 971	38.2	2.9	359	4	US-09-621-976-16008	Sequence 16008, A
C 899	38.2	2.9	190	4	US-09-621-976-16784	Sequence 16784, A	C 972	38.2	2.9	359	4	US-09-621-976-16019	Sequence 16019, A
C 900	38.2	2.9	222	4	US-09-621-976-16293	Sequence 16293, A	C 973	38.2	2.9	362	4	US-09-621-976-16010	Sequence 16010, A
C 901	38.2	2.9	231	4	US-09-621-976-16317	Sequence 16317, A	C 974	38.2	2.9	365	4	US-09-621-976-16042	Sequence 16042, A
C 902	38.2	2.9	242	4	US-09-621-976-16320	Sequence 16320, A	C 975	38.2	2.9	395	3	US-09-195-106-21	Sequence 21, Appl
C 903	38.2	2.9	242	4	US-09-621-976-16324	Sequence 16324, A	C 976	38.2	2.9	430	4	US-09-621-976-16656	Sequence 16656, A

977	38	2.9	433	1	US-07-987-272A-13	Sequence 13, Appl	1050	37.8	2.8	1214	4	US-09-780-717-28	Sequence 28, Appl
C 978	38	2.9	467	2	US-08-841-349-18	Sequence 18, Appl	1051	37.8	2.8	1242	3	US-08-413-974-1	Sequence 1, Appl
C 979	38	2.9	467	3	US-09-431-184A-18	Sequence 18, Appl	1052	37.8	2.8	1242	3	US-08-434-418-1	Sequence 1, Appl
980	38	2.9	474	3	US-08-516-859A-97	Sequence 97, Appl	1053	37.8	2.8	1242	3	US-08-433-288-1	Sequence 1, Appl
981	38	2.9	474	3	US-09-586-472-97	Sequence 97, Appl	1054	37.8	2.8	1242	3	US-08-174-739A-1	Sequence 1, Appl
982	38	2.9	474	3	US-09-528-706-97	Sequence 97, Appl	1055	37.8	2.8	1242	3	US-08-434-256-1	Sequence 1, Appl
C 983	38	2.9	601	4	US-09-949-016-44635	Sequence 44635, A	1056	37.8	2.8	1271	4	US-09-905-558D-1	Sequence 1, Appl
984	38	2.9	664	4	US-09-904-615-66	Sequence 66, Appl	C1057	37.8	2.8	1272	4	US-09-252-991A-10762	Sequence 10762, A
985	38	2.9	1192	4	US-09-439-554-23	Sequence 23, Appl	1058	37.8	2.8	1307	2	US-09-960-022-17	Sequence 17, Appl
986	38	2.9	1275	3	US-08-793-666-9	Sequence 9, Appl	1059	37.8	2.8	1323	2	US-09-252-991A-10284	Sequence 10284, A
987	38	2.9	1277	4	US-09-270-767-25838	Sequence 25838, A	1060	37.8	2.8	1414	4	US-09-404-296B-9	Sequence 9, Appl
988	38	2.9	1280	4	US-09-369-247-40	Sequence 40, Appl	1061	37.8	2.8	1425	3	US-09-039-046-1	Sequence 1, Appl
989	38	2.9	1497	4	US-09-800-729-80	Sequence 80, Appl	1062	37.8	2.8	1508	3	US-09-252-991A-10396	Sequence 10396, A
C 990	38	2.9	1499	4	US-09-902-540-3892	Sequence 3892, Ap	1063	37.8	2.8	1692	4	US-09-821-803A-5	Sequence 5, Appl
991	38	2.9	1620	4	US-09-902-540-6516	Sequence 6516, Ap	1064	37.8	2.8	1781	1	US-08-314-615-2	Sequence 2, Appl
992	38	2.9	1687	1	US-08-143-219-26	Sequence 26, Appl	1065	37.8	2.8	1781	1	US-08-314-362-2	Sequence 2, Appl
993	38	2.9	1746	4	US-09-485-529-57	Sequence 57, Appl	1066	37.8	2.8	1781	1	US-08-433-010-2	Sequence 4, Appl
994	38	2.9	1768	4	US-09-485-529-13	Sequence 13, Appl	1067	37.8	2.8	1781	1	US-08-245-235-4	Sequence 4, Appl
995	38	2.9	1790	4	US-09-866-028-31	Sequence 31, Appl	1068	37.8	2.8	1781	1	US-08-481-130-4	Sequence 4, Appl
996	38	2.9	2209	1	US-08-514-014-1	Sequence 1, Appl	1069	37.8	2.8	1781	1	US-08-482-882-2	Sequence 2, Appl
997	38	2.9	2209	2	US-08-833-823-1	Sequence 1, Appl	1070	37.8	2.8	1781	1	US-08-485-604-4	Sequence 4, Appl
998	38	2.9	2267	4	US-09-917-265A-107	Sequence 107, App	1071	37.8	2.8	1781	1	US-08-483-389-2	Sequence 2, Appl
C1000	38	2.9	2267	4	US-09-917-265A-109	Sequence 109, App	1072	37.8	2.8	1781	2	US-08-487-113D-2	Sequence 2, Appl
1001	38	2.9	2389	4	US-09-759-875-7	Sequence 7, Appl	1073	37.8	2.8	1781	2	US-08-487-535-4	Sequence 4, Appl
1002	38	2.9	2440	4	US-09-966-880A-1	Sequence 1, Appl	1074	37.8	2.8	1781	2	US-08-473-503-2	Sequence 2, Appl
1003	38	2.9	2567	3	US-08-993-260-4	Sequence 4, Appl	1075	37.8	2.8	1781	2	US-08-473-932-2	Sequence 2, Appl
1004	38	2.9	2674	3	US-09-817-180-1	Sequence 1, Appl	1076	37.8	2.8	1781	2	US-08-483-932-2	Sequence 2, Appl
1005	38	2.9	2674	4	US-10-003-295-1	Sequence 1, Appl	1077	37.8	2.8	1781	3	US-08-720-420A-2	Sequence 2, Appl
C1006	38	2.9	2779	4	US-09-902-540-474	Sequence 474, App	1078	37.8	2.8	1781	3	US-08-714-017-2	Sequence 2, Appl
1007	38	2.9	2964	4	US-09-578-063-25	Sequence 25, Appl	1079	37.8	2.8	1781	3	US-08-863-790-2	Sequence 2, Appl
1008	38	2.9	3300	3	US-09-336-643A-82	Sequence 82, Appl	1080	37.8	2.8	1781	3	US-08-475-680-2	Sequence 2, Appl
1009	38	2.9	3556	4	US-09-270-767-10439	Sequence 3, Appl	1081	37.8	2.8	1781	3	US-08-296-749-2	Sequence 2, Appl
1010	38	2.9	4064	4	US-09-873-737A-3	Sequence 3, Appl	1082	37.8	2.8	1798	3	US-08-314-369-2	Sequence 1, Appl
C1011	38	2.9	6751	4	US-09-761-466-5	Sequence 5, Appl	1083	37.8	2.8	1798	3	US-09-797-906-1	Sequence 39, Appl
1012	38	2.9	19222	4	US-09-902-540-1192	Sequence 1192, Ap	1084	37.8	2.8	1878	6	US-09-465-558-39	Patent No. 5258287
C1013	38	2.9	51273	4	US-09-949-016-13018	Sequence 13018, A	1085	37.8	2.8	2550	6	5258287-23	Patent No. 5258287
C1014	38	2.9	152481	4	US-09-949-016-12521	Sequence 12521, A	1086	37.8	2.8	2550	6	US-09-596-141C-6	Sequence 6, Appl
C1015	38	2.9	152798	4	US-09-949-016-12775	Sequence 12775, A	1087	37.8	2.8	3366	4	US-09-595-526C-6	Sequence 6, Appl
C1016	38	2.9	152822	4	US-09-949-016-17518	Sequence 17518, A	1088	37.8	2.8	3366	4	US-09-511-625B-3	Sequence 3, Appl
C1017	38	2.9	152822	4	US-09-949-016-17519	Sequence 17519, A	1089	37.8	2.8	3894	3	US-08-567-508C-1	Sequence 1, Appl
C1018	38	2.9	767677	4	US-09-949-016-12147	Sequence 12147, A	1090	37.8	2.8	4482	2	US-09-196-480-1	Sequence 1, Appl
C1019	38	2.9	767677	4	US-09-949-016-17361	Sequence 17361, A	1091	37.8	2.8	4482	3	US-09-368-590-1	Sequence 1, Appl
1020	37.8	2.8	66	4	US-09-621-976-12102	Sequence 12102, A	1092	37.8	2.8	7812	3	US-09-596-141C-1	Sequence 1, Appl
1021	37.8	2.8	82	4	US-09-621-976-12434	Sequence 12434, A	1093	37.8	2.8	10442	4	US-09-595-526C-1	Sequence 7, Appl
1022	37.8	2.8	192	4	US-09-621-976-12434	Sequence 12434, A	1094	37.8	2.8	10442	4	US-09-596-141C-9	Sequence 9, Appl
1023	37.8	2.8	201	4	US-09-248-796A-11190	Sequence 11190, A	1095	37.8	2.8	10474	4	US-09-595-526C-7	Sequence 7, Appl
1024	37.8	2.8	229	4	US-09-702-705-195	Sequence 1152, A	1096	37.8	2.8	10474	4	US-09-595-526C-9	Sequence 9, Appl
1025	37.8	2.8	229	4	US-09-736-457-195	Sequence 195, App	1097	37.8	2.8	10474	4	US-09-902-540-1200	Sequence 1200, Ap
1026	37.8	2.8	229	4	US-09-614-124B-195	Sequence 195, App	1098	37.8	2.8	24966	4	US-09-949-016-15520	Sequence 15520, A
1027	37.8	2.8	229	4	US-09-671-325-195	Sequence 195, App	1099	37.8	2.8	29172	4	US-09-949-016-16864	Sequence 16864, A
1028	37.8	2.8	229	4	US-09-589-184-195	Sequence 184, 195	C1101	37.8	2.8	40905	4	US-09-949-016-12849	Sequence 12849, A
1029	37.8	2.8	229	4	US-09-658-824-195	Sequence 305, App	C1102	37.8	2.8	253375	4	US-09-790-988-1	Sequence 1, Appl
C1030	37.8	2.8	245	3	US-09-404-879A-305	Sequence 305, App	C1103	37.8	2.8	640681	4	US-09-621-976-12774	Sequence 12774, A
C1031	37.8	2.8	245	4	US-09-338-933-305	Sequence 305, App	1104	37.6	2.8	165	4	US-09-621-976-19195	Sequence 19195, A
C1032	37.8	2.8	245	4	US-09-215-681-305	Sequence 305, App	1105	37.6	2.8	231	4	US-09-621-976-16556	Sequence 16556, A
C1033	37.8	2.8	245	4	US-09-215-003A-305	Sequence 305, App	1106	37.6	2.8	233	4	US-09-621-976-16559	Sequence 16559, A
C1034	37.8	2.8	245	4	US-09-667-857-305	Sequence 1902, A	1107	37.6	2.8	234	4	US-09-621-976-16557	Sequence 16557, A
1035	37.8	2.8	272	4	US-09-270-767-11902	Sequence 18329, A	1108	37.6	2.8	235	4	US-09-621-976-16550	Sequence 16550, A
1036	37.8	2.8	276	4	US-09-621-976-18329	Sequence 16989, A	1109	37.6	2.8	258	4	US-09-621-976-11082	Sequence 11082, A
1037	37.8	2.8	283	4	US-09-621-976-16989	Sequence 35, Appl	1110	37.6	2.8	267	4	US-09-621-976-14155	Sequence 14155, A
1038	37.8	2.8	286	4	US-10-021-338A-35	Sequence 15142, A	1111	37.6	2.8	323	4	US-09-621-976-16131	Sequence 16131, A
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1041	37.8	2.8	330	4	US-09-621-976-16038	Sequence 658, App	1114	37.6	2.8	351	4	US-09-621-976-16140	Sequence 16140, A
1042	37.8	2.8	335	4	US-09-328-111-652	Sequence 5, Appl	1115	37.6	2.8	371	4	US-09-621-976-16048	Sequence 16048, A
C1043	37.8	2.8	676	3	US-08-567-882-5	Sequence 5, Appl	1116	37.6	2.8	396	4	US-09-640-173-19	Sequence 19, Appl
1044	37.8	2.8	769	4	US-09-252-991A-10678	Sequence 10678, A	C1117	37.6	2.8	396	4	US-09-713-550-19	Sequence 19, Appl
C1045	37.8	2.8	927	3	US-09-149-476-35	Sequence 35, Appl	C1118	37.6	2.8	396	4	US-09-925-294-19	Sequence 19, Appl
1046	37.8	2.8	943	3	US-09-328-475C-12	Sequence 12, Appl	C1119	37.6	2.8	396	4	US-09-970-966-19	Sequence 19, Appl
C1047	37.8	2.8	957	4	US-08-893-654B-5	Sequence 5, Appl	C1120	37.6	2.8	515	3	US-08-589-028-1	Sequence 1, Appl
1048	37.8	2.8	1466	3	US-08-390-207-1	Sequence 1, Appl	1121	37.6	2.8	515	3	US-08-784-582-1	Sequence 1, Appl
1049	37.8	2.8	1190	4			1122	37.6	2.8	515	3		

1123	37.6	2.8	515	3	US-08-785-271-1	Sequence 1, Appli	Sequence 1, Appli	37.6	2.8	818128	4	US-09-949-016-14551	Sequence 14551, A
1124	37.6	2.8	536	1	US-08-341-568-1	Sequence 1, Appli	Sequence 1, Appli	37.6	2.8	818128	4	US-09-949-016-14552	Sequence 14552, A
1125	37.6	2.8	536	2	US-08-911-020-1	Sequence 1, Appli	Sequence 1, Appli	37.6	2.8	818128	4	US-09-949-016-14553	Sequence 14553, A
1126	37.6	2.8	582	4	US-09-043-861-1	Sequence 1, Appli	Sequence 1, Appli	37.6	2.8	818128	4	US-09-949-016-14554	Sequence 14554, A
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1128	37.6	2.8	601	4	US-09-949-016-140957	Sequence 140957, A	Sequence 140957, A	37.6	2.8	818128	4	US-09-949-016-14556	Sequence 14556, A
c1129	37.6	2.8	601	4	US-09-949-016-205849	Sequence 205849, A	Sequence 205849, A	37.6	2.8	818128	4	US-09-949-016-14557	Sequence 14557, A
1130	37.6	2.8	773	3	US-09-149-476-20	Sequence 20, Appli	Sequence 20, Appli	37.6	2.8	818128	4	US-09-949-016-14558	Sequence 14558, A
1131	37.6	2.8	1027	3	US-09-270-767-14068	Sequence 14068, A	Sequence 14068, A	37.6	2.8	818128	4	US-09-949-016-14559	Sequence 14559, A
1132	37.6	2.8	1027	3	US-09-465-558-57	Sequence 57, Appli	Sequence 57, Appli	37.6	2.8	818128	4	US-09-949-016-14560	Sequence 14560, A
1133	37.6	2.8	1075	3	US-08-400-0068-6	Sequence 6, Appli	Sequence 6, Appli	37.6	2.8	818128	4	US-09-949-016-14561	Sequence 14561, A
1134	37.6	2.8	1106	3	US-09-362-318-1	Sequence 1, Appli	Sequence 1, Appli	37.6	2.8	818128	4	US-09-949-016-14562	Sequence 14562, A
1135	37.6	2.8	1123	3	US-09-152-060-15	Sequence 15, Appli	Sequence 15, Appli	37.6	2.8	818128	4	US-09-949-016-14564	Sequence 14564, A
1136	37.6	2.8	1134	3	US-09-248-335-29	Sequence 29, Appli	Sequence 29, Appli	37.6	2.8	818128	4	US-09-949-016-14565	Sequence 14565, A
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c1138	37.6	2.8	1191	4	US-09-270-767-8301	Sequence 8301, A	Sequence 8301, A	37.6	2.8	818128	4	US-09-949-016-14567	Sequence 14567, A
c1139	37.6	2.8	1191	4	US-09-270-767-23583	Sequence 23583, A	Sequence 23583, A	37.6	2.8	818128	4	US-09-949-016-18058	Sequence 18058, A
1140	37.6	2.8	1379	4	US-09-461-325-124	Sequence 124, App	Sequence 124, App	37.6	2.8	153	4	US-09-621-976-18058	Sequence 18058, A
1141	37.6	2.8	1379	4	US-10-012-542-124	Sequence 124, App	Sequence 124, App	37.6	2.8	160	4	US-09-621-976-18071	Sequence 18071, A
1142	37.6	2.8	1379	4	US-10-115-123-124	Sequence 124, App	Sequence 124, App	37.6	2.8	162	4	US-09-621-976-18068	Sequence 18068, A
1143	37.6	2.8	1383	4	US-09-735-846-1	Sequence 1, Appli	Sequence 1, Appli	37.6	2.8	179	4	US-09-621-976-18054	Sequence 18054, A
1144	37.6	2.8	1490	2	US-08-553-367A-5	Sequence 5, Appli	Sequence 5, Appli	37.6	2.8	182	4	US-09-621-976-16234	Sequence 16234, A
1145	37.6	2.8	1490	3	US-09-295-306-5	Sequence 5, Appli	Sequence 5, Appli	37.6	2.8	182	4	US-09-621-976-18062	Sequence 18062, A
1146	37.6	2.8	1490	3	US-09-734-719-5	Sequence 5, Appli	Sequence 5, Appli	37.6	2.8	223	3	US-09-792-594-11	Sequence 11, Appli
1147	37.6	2.8	1534	1	US-08-300-903A-6	Sequence 6, Appli	Sequence 6, Appli	37.6	2.8	237	3	US-09-191-136-29	Sequence 29, Appli
1148	37.6	2.8	1534	4	US-08-988-197-6	Sequence 6, Appli	Sequence 6, Appli	37.6	2.8	253	4	US-09-621-976-12799	Sequence 12799, A
1149	37.6	2.8	1534	4	US-10-385-072-6	Sequence 6, Appli	Sequence 6, Appli	37.6	2.8	255	4	US-09-621-976-9406	Sequence 9406, Ap
1150	37.6	2.8	1559	2	US-08-417-174-1	Sequence 1, Appli	Sequence 1, Appli	37.6	2.8	258	4	US-09-621-976-15353	Sequence 15353, A
1151	37.6	2.8	1559	2	US-08-231-565A-1	Sequence 1, Appli	Sequence 1, Appli	37.6	2.8	261	4	US-09-621-976-17096	Sequence 17096, A
1152	37.6	2.8	1559	2	US-09-007-961-1	Sequence 1, Appli	Sequence 1, Appli	37.6	2.8	263	3	US-09-091-097-26	Sequence 26, Appli
1153	37.6	2.8	1559	3	US-09-267-439-1	Sequence 1, Appli	Sequence 1, Appli	37.6	2.8	268	4	US-09-621-976-2415	Sequence 2415, Ap
1154	37.6	2.8	1559	4	US-09-073-138-1	Sequence 1, Appli	Sequence 1, Appli	37.6	2.8	289	4	US-09-621-976-2903	Sequence 2903, Ap
1155	37.6	2.8	1621	3	US-09-020-956-107	Sequence 107, App	Sequence 107, App	37.6	2.8	289	4	US-09-621-976-2960	Sequence 2960, Ap
1156	37.6	2.8	1621	3	US-09-030-607-107	Sequence 107, App	Sequence 107, App	37.6	2.8	272	4	US-09-621-976-2953	Sequence 2953, Ap
1157	37.6	2.8	1621	3	US-09-439-313-107	Sequence 107, App	Sequence 107, App	37.6	2.8	284	4	US-09-621-976-2901	Sequence 2901, Ap
1158	37.6	2.8	1621	3	US-09-352-616A-107	Sequence 107, App	Sequence 107, App	37.6	2.8	284	4	US-09-621-976-3119	Sequence 3119, Ap
1159	37.6	2.8	1621	3	US-09-232-149A-107	Sequence 107, App	Sequence 107, App	37.6	2.8	288	2	US-08-848-496-1	Sequence 1, Appli
1160	37.6	2.8	1621	4	US-09-159-812-107	Sequence 107, App	Sequence 107, App	37.6	2.8	289	4	US-09-621-976-10009	Sequence 10009, A
1161	37.6	2.8	1621	4	US-09-636-215-107	Sequence 107, App	Sequence 107, App	37.6	2.8	321	2	US-08-520-678A-23	Sequence 23, Appli
1162	37.6	2.8	1621	4	US-09-685-166A-107	Sequence 107, App	Sequence 107, App	37.6	2.8	321	3	US-08-897-126-23	Sequence 23, Appli
1163	37.6	2.8	1621	4	US-09-115-453-107	Sequence 107, App	Sequence 107, App	37.6	2.8	328	4	US-09-621-976-16144	Sequence 16144, A
1164	37.6	2.8	1621	4	US-09-688-489-107	Sequence 107, App	Sequence 107, App	37.6	2.8	339	4	US-09-621-976-16015	Sequence 16015, A
1165	37.6	2.8	1621	4	US-09-679-426-107	Sequence 107, App	Sequence 107, App	37.6	2.8	520	4	US-09-220-132-171	Sequence 171, App
1166	37.6	2.8	1621	4	US-09-759-143-107	Sequence 107, App	Sequence 107, App	37.6	2.8	552	4	US-09-461-325-111	Sequence 111, App
1167	37.6	2.8	1621	4	US-09-651-236-107	Sequence 107, App	Sequence 107, App	37.6	2.8	552	4	US-10-012-542-111	Sequence 111, App
1168	37.6	2.8	1659	1	US-08-333-358-7	Sequence 7, Appli	Sequence 7, Appli	37.6	2.8	552	4	US-10-115-123-111	Sequence 111, App
1169	37.6	2.8	1659	1	US-08-463-694-7	Sequence 7, Appli	Sequence 7, Appli	37.6	2.8	601	4	US-09-949-016-119875	Sequence 119875
1170	37.6	2.8	1659	1	US-08-694-501-7	Sequence 7, Appli	Sequence 7, Appli	37.6	2.8	776	4	US-09-302-3318-3	Sequence 3, Appli
1171	37.6	2.8	1663	4	US-09-464-535-43	Sequence 43, Appli	Sequence 43, Appli	37.6	2.8	859	3	US-09-247-373B-47	Sequence 47, Appli
1172	37.6	2.8	1725	4	US-09-668-097A-21	Sequence 21, Appli	Sequence 21, Appli	37.6	2.8	873	3	US-09-475-316A-20	Sequence 20, Appli
1173	37.6	2.8	1817	1	US-08-473-981A-5	Sequence 5, Appli	Sequence 5, Appli	37.6	2.8	873	4	US-09-704-640-20	Sequence 20, Appli
1174	37.6	2.8	1817	2	US-08-474-087-5	Sequence 5, Appli	Sequence 5, Appli	37.6	2.8	967	3	US-09-248-335-51	Sequence 51, Appli
1175	37.6	2.8	2010	1	US-07-864-475A-4	Sequence 4, Appli	Sequence 4, Appli	37.6	2.8	1069	3	US-09-372-422A-7	Sequence 7, Appli
1176	37.6	2.8	2010	2	US-08-468-249A-4	Sequence 4, Appli	Sequence 4, Appli	37.6	2.8	1128	4	US-09-248-796A-5331	Sequence 5331, Ap
1177	37.6	2.8	2170	4	US-09-949-016-5942	Sequence 942, App	Sequence 942, App	37.6	2.8	1143	3	US-09-149-476-119	Sequence 119, App
1178	37.6	2.8	2581	2	US-09-013-634-1	Sequence 1, Appli	Sequence 1, Appli	37.6	2.8	1296	4	US-09-461-325-29	Sequence 29, Appli
1179	37.6	2.8	2918	4	US-09-949-016-421	Sequence 421, App	Sequence 421, App	37.6	2.8	1296	4	US-10-012-542-29	Sequence 29, Appli
1180	37.6	2.8	2934	4	US-09-949-016-5809	Sequence 5809, App	Sequence 5809, App	37.6	2.8	1296	4	US-10-115-123-29	Sequence 29, Appli
1181	37.6	2.8	3346	4	US-09-684-405-5	Sequence 5, Appli	Sequence 5, Appli	37.6	2.8	1565	4	US-09-417-251A-17	Sequence 17, Appli
1182	37.6	2.8	4860	4	US-09-949-016-296	Sequence 296, App	Sequence 296, App	37.6	2.8	1618	4	US-09-800-729-29	Sequence 29, Appli
1183	37.6	2.8	4978	1	US-08-220-603A-1	Sequence 1, Appli	Sequence 1, Appli	37.6	2.8	1660	4	US-09-461-325-129	Sequence 129, App
1184	37.6	2.8	5232	3	US-08-972-927-1	Sequence 1, Appli	Sequence 1, Appli	37.6	2.8	1660	4	US-10-012-542-129	Sequence 129, App
1185	37.6	2.8	10233	3	US-09-949-016-11949	Sequence 11949, A	Sequence 11949, A	37.6	2.8	1660	4	US-10-115-123-129	Sequence 129, App
1186	37.6	2.8	10234	4	US-09-949-016-17551	Sequence 17551, A	Sequence 17551, A	37.6	2.8	1697	4	US-09-345-473B-7	Sequence 7, Appli
1187	37.6	2.8	15450	4	US-09-470-616A-1	Sequence 1, Appli	Sequence 1, Appli	37.6	2.8	1738	2	US-08-379-482A-2	Sequence 2, Appli
c1188	37.6	2.8	107421	4	US-09-949-016-15532	Sequence 15532, A	Sequence 15532, A	37.6	2.8	1902	4	US-09-620-312D-862	Sequence 862, App
1189	37.6	2.8	145928	4	US-09-949-016-15444	Sequence 15444, A	Sequence 15444, A	37.6	2.8	1929	3	US-09-146-950-1	Sequence 1, Appli
1190	37.6	2.8	148783	4	US-09-949-016-15729	Sequence 15729, A	Sequence 15729, A	37.6	2.8	2073	3	US-09-173-300-3	Sequence 3, Appli
c1191	37.6	2.8	818128	4	US-09-949-016-14546	Sequence 14546, A	Sequence 14546, A	37.6	2.8	2073	4	US-10-027-450-3	Sequence 3, Appli
c1192	37.6	2.8	818128	4	US-09-949-016-14547	Sequence 14547, A	Sequence 14547, A	37.6	2.8	2083	4	US-09-716-129-41	Sequence 41, Appli
c1193	37.6	2.8	818128	4	US-09-949-016-14548	Sequence 14548, A	Sequence 14548, A	37.6	2.8	2134	4	US-09-629-222A-23	Sequence 23, Appli
c1194	37.6	2.8	818128	4	US-09-949-016-14549	Sequence 14549, A	Sequence 14549, A	37.6	2.8	2152	4	US-09-629-222A-25	Sequence 25, Appli
c1195	37.6	2.8	818128	4	US-09-949-016-14550	Sequence 14550, A	Sequence 14550, A	37.6	2.8	2152	4	US-09-629-222A-25	Sequence 25, Appli

1269	37.4	2.8	2152	4	US-09-629-222A-26	Sequence 26, Appl	1342	37.2	2.8	2206	4	US-09-906-618-3	Sequence 3, Appli
1270	37.4	2.8	2152	4	US-09-629-222A-27	Sequence 27, Appl	1343	37.2	2.8	2345	3	US-08-955-937A-1	Sequence 1, Appli
1271	37.4	2.8	2152	4	US-08-425-069-1	Sequence 1, Appli	1344	37.2	2.8	2345	3	US-09-300-985-1	Sequence 1, Appli
1272	37.4	2.8	2338	1	US-08-317-844B-1	Sequence 1, Appli	1345	37.2	2.8	2483	4	US-09-205-258-68	Sequence 68, Appl
1273	37.4	2.8	2621	4	US-09-949-016-1072	Sequence 1072, Ap	1346	37.2	2.8	2970	4	US-09-902-540-8779	Sequence 8779, Ap
1274	37.4	2.8	2668	3	US-09-370-838-156	Sequence 156, App	1347	37.2	2.8	3047	1	US-07-927-851-2	Sequence 2, Appli
1275	37.4	2.8	2668	4	US-09-854-133-156	Sequence 156, App	1348	37.2	2.8	3047	1	US-08-453-323-2	Sequence 2, Appli
1276	37.4	2.8	2671	6	5168051-9	Patent No. 5168051	1349	37.2	2.8	3047	1	US-08-440-520-2	Sequence 2, Appli
1277	37.4	2.8	2671	6	5168051-9	Patent No. 5168051	1350	37.2	2.8	3312	4	US-09-669-751-259	Sequence 259, App
1278	37.4	2.8	2718	4	US-09-667-135-1	Sequence 1, Appli	1351	37.2	2.8	3301	4	US-09-949-016-965	Sequence 965, App
1279	37.4	2.8	2908	4	US-09-904-615-35	Sequence 35, Appl	1352	37.2	2.8	3901	4	US-09-389-956-1	Sequence 1, Appli
1280	37.4	2.8	4119	4	US-09-949-016-457	Sequence 457, App	1353	37.2	2.8	3902	4	US-08-469-537A-102	Sequence 102, App
1281	37.4	2.8	18650	4	US-09-949-016-13440	Sequence 13440, A	1354	37.2	2.8	3906	2	US-08-815-048-1	Sequence 1, Appli
1282	37.4	2.8	86213	4	US-09-949-016-17240	Sequence 17240, A	1355	37.2	2.8	4239	2	US-08-726-012B-1	Sequence 1, Appli
1283	37.4	2.8	86213	4	US-09-949-016-17241	Sequence 17241, A	1356	37.2	2.8	5503	2	US-09-023-655-989	Sequence 989, App
1284	37.4	2.8	86213	4	US-09-949-016-17242	Sequence 17242, A	1357	37.2	2.8	5503	4	US-09-815-923-1	Sequence 1, Appli
1285	37.4	2.8	86213	4	US-09-949-016-17243	Sequence 17243, A	1358	37.2	2.8	5554	4	US-09-902-540-932	Sequence 932, App
1286	37.4	2.8	149543	4	US-09-949-016-15947	Sequence 15947, A	1359	37.2	2.8	7005	4	US-09-902-540-932	Sequence 13613, A
1287	37.2	2.8	163	4	US-09-621-976-15440	Sequence 15440, A	1360	37.2	2.8	7005	4	US-09-949-016-13613	Sequence 13613, A
1288	37.2	2.8	185	4	US-09-621-976-16779	Sequence 16779, A	1361	37.2	2.8	76281	4	US-09-949-016-15316	Sequence 15316, A
1289	37.2	2.8	232	4	US-09-621-976-17701	Sequence 17701, A	1362	37.2	2.8	144322	4	US-09-949-016-15316	Sequence 17504, A
1290	37.2	2.8	250	4	US-09-621-976-18893	Sequence 18893, A	1363	37.2	2.8	276237	4	US-09-621-976-17049	Sequence 17049, A
1291	37.2	2.8	257	2	US-08-520-678A-24	Sequence 16142, A	1364	37	2.8	270	4	US-09-621-976-16983	Sequence 16983, A
1292	37.2	2.8	257	3	US-08-897-126-24	Sequence 24, Appl	1365	37	2.8	289	1	US-08-341-568-3	Sequence 3, Appli
1293	37.2	2.8	268	4	US-09-621-976-73	Sequence 73, Appl	1366	37	2.8	289	2	US-08-911-020-3	Sequence 3, Appli
1294	37.2	2.8	322	4	US-09-621-976-16142	Sequence 16142, A	1367	37	2.8	293	4	US-09-621-976-16965	Sequence 16965, A
1295	37.2	2.8	327	4	US-09-621-976-16018	Sequence 16018, A	1368	37	2.8	304	4	US-09-621-976-16099	Sequence 16099, A
1296	37.2	2.8	396	4	US-09-640-173-42	Sequence 42, Appl	1369	37	2.8	308	2	US-08-721-488-4	Sequence 4, Appli
1297	37.2	2.8	396	4	US-09-713-550-42	Sequence 42, Appl	1370	37	2.8	472	4	US-09-205-258-130	Sequence 130, App
1298	37.2	2.8	396	4	US-09-825-294-42	Sequence 42, Appl	1371	37	2.8	570	1	US-07-885-970A-10	Sequence 10, Appl
1299	37.2	2.8	396	4	US-09-970-966-42	Sequence 42, Appl	1372	37	2.8	570	1	US-08-298-687A-10	Sequence 10, Appl
1300	37.2	2.8	475	4	US-09-621-976-2630	Sequence 2630, Ap	1373	37	2.8	570	1	US-08-298-829-10	Sequence 10, Appl
1301	37.2	2.8	570	4	US-09-252-991A-2770	Sequence 2770, Ap	1374	37	2.8	601	4	US-09-949-016-38426	Sequence 38426, A
1302	37.2	2.8	601	4	US-09-949-016-22193	Sequence 22193, A	1375	37	2.8	601	4	US-09-949-016-120655	Sequence 120655, A
1303	37.2	2.8	601	4	US-09-949-016-41599	Sequence 41599, A	1376	37	2.8	601	4	US-09-949-016-120656	Sequence 120656, A
1304	37.2	2.8	601	4	US-09-949-016-205850	Sequence 205850, App	1377	37	2.8	601	4	US-09-949-016-149677	Sequence 149677, A
1305	37.2	2.8	617	3	US-09-385-982-222	Sequence 982, App	1378	37	2.8	601	4	US-09-949-016-149677	Sequence 149677, A
1306	37.2	2.8	623	4	US-09-621-976-19162	Sequence 19162, A	1379	37	2.8	601	4	US-09-949-016-176231	Sequence 176231, A
1307	37.2	2.8	753	4	US-09-902-331B-9	Sequence 331B-9	1380	37	2.8	601	4	US-09-949-016-176231	Sequence 176231, A
1308	37.2	2.8	1001	1	US-08-728-259A-10	Sequence 259A-10	1381	37	2.8	601	4	US-09-949-016-176307	Sequence 176307, A
1309	37.2	2.8	1001	1	US-08-473-486-10	Sequence 473-486-10	1382	37	2.8	606	4	US-09-004-730A-100	Sequence 100, App
1310	37.2	2.8	1013	1	US-07-920-519-30	Sequence 30, Appl	1383	37	2.8	606	4	US-09-004-730A-100	Sequence 100, App
1311	37.2	2.8	1013	1	US-08-086-410-23	Sequence 23, Appl	1384	37	2.8	606	4	US-08-981-799A-102	Sequence 102, App
1312	37.2	2.8	1013	1	US-08-314-586-30	Sequence 30, Appl	1385	37	2.8	606	4	US-08-981-799A-102	Sequence 9, Appli
1313	37.2	2.8	1196	4	US-09-270-767-14804	Sequence 14804, A	1386	37	2.8	609	1	US-08-530-797-9	Sequence 9, Appli
1314	37.2	2.8	1233	3	US-09-252-991A-3104	Sequence 3104, A	1387	37	2.8	609	2	US-08-787-335-9	Sequence 31, Appl
1315	37.2	2.8	1386	4	US-09-333-423-1	Sequence 423-1	1388	37	2.8	699	4	US-09-690-454-31	Sequence 1, Appli
1316	37.2	2.8	1440	4	US-09-252-991A-2867	Sequence 2867, Ap	1389	37	2.8	767	1	US-08-184-604-1	Sequence 4, Appli
1317	37.2	2.8	1469	3	US-09-252-991A-2675	Sequence 2675, Ap	1390	37	2.8	875	4	US-09-589-733C-4	Sequence 2, Appli
1318	37.2	2.8	1469	3	US-09-074-912-1	Sequence 1, Appli	1391	37	2.8	896	2	US-08-624-650-2	Sequence 2, Appli
1319	37.2	2.8	1515	4	US-09-290-136-1	Sequence 1, Appli	1392	37	2.8	996	4	US-09-818-648-2	Sequence 18, Appl
1320	37.2	2.8	1525	3	US-09-157-603-4	Sequence 4, Appli	1393	37	2.8	1064	4	US-09-096-724B-18	Sequence 3, Appli
1321	37.2	2.8	1525	3	US-09-587-436-4	Sequence 4, Appli	1394	37	2.8	1146	3	US-09-452-239-3	Sequence 1, Appli
1322	37.2	2.8	1525	3	US-09-587-436-4	Sequence 4, Appli	1395	37	2.8	1160	3	US-08-995-159-1	Sequence 1, Appli
1323	37.2	2.8	1525	3	US-08-927-165A-4	Sequence 4, Appli	1396	37	2.8	1160	4	US-09-545-605-1	Sequence 1, Appli
1324	37.2	2.8	1630	4	US-10-162-012-39	Sequence 39, Appl	1397	37	2.8	1216	4	US-09-533-029-121	Sequence 121, App
1325	37.2	2.8	1699	3	US-09-152-060-19	Sequence 19, Appl	1398	37	2.8	1320	4	US-09-370-767-5205	Sequence 5205, Ap
1326	37.2	2.8	1781	4	US-09-818-512-1	Sequence 1, Appli	1399	37	2.8	1320	4	US-09-270-767-20487	Sequence 20487, A
1327	37.2	2.8	1844	4	US-10-003-392-7	Sequence 7, Appli	1400	37	2.8	1355	4	US-09-599-360B-64	Sequence 64, Appl
1328	37.2	2.8	1875	4	US-09-614-912-129	Sequence 129, App	1401	37	2.8	1512	4	US-09-482-273-18	Sequence 18, Appl
1329	37.2	2.8	2172	2	US-08-417-174-26	Sequence 26, Appl	1402	37	2.8	1518	3	US-09-614-912-191	Sequence 11, App
1330	37.2	2.8	2172	2	US-08-231-565A-26	Sequence 26, Appl	1403	37	2.8	1683	3	US-09-347-803-11	Sequence 11, Appl
1331	37.2	2.8	2172	2	US-09-007-961-26	Sequence 26, Appl	1404	37	2.8	1858	2	US-08-909-965C-11	Sequence 1, Appli
1332	37.2	2.8	2172	3	US-09-267-439-26	Sequence 26, Appl	1405	37	2.8	1910	2	US-09-009-438-1	Sequence 1, Appli
1333	37.2	2.8	2206	4	US-09-073-138-26	Sequence 3, Appli	1406	37	2.8	1910	3	US-09-207-493-1	Sequence 1, Appli
1334	37.2	2.8	2206	4	US-09-907-794A-3	Sequence 3, Appli	1407	37	2.8	2080	4	US-10-003-392-1	Sequence 532, App
1335	37.2	2.8	2206	4	US-09-905-125A-3	Sequence 3, Appli	1408	37	2.8	2128	4	US-09-673-395A-532	Sequence 532, App
1336	37.2	2.8	2206	4	US-09-902-775A-3	Sequence 3, Appli	1409	37	2.8	2151	4	US-09-252-991A-14112	Sequence 2, Appli
1337	37.2	2.8	2206	4	US-09-906-700-3	Sequence 3, Appli	1410	37	2.8	2193	3	US-09-427-261-2	Sequence 2, Appli
1338	37.2	2.8	2206	4	US-09-903-603A-3	Sequence 3, Appli	1411	37	2.8	2193	3	US-09-427-261-2	Sequence 3, Appli
1339	37.2	2.8	2206	4	US-09-904-920A-3	Sequence 3, Appli	1412	37	2.8	2222	3	US-09-197-380-1	Sequence 1, Appli
1340	37.2	2.8	2206	4	US-09-904-920A-3	Sequence 3, Appli	1413	37	2.8	2223	4	US-09-252-991A-14116	Sequence 14116, A
1341	37.2	2.8	2206	4	US-09-905-064A-3	Sequence 3, Appli	1414	37	2.8	2241	4	US-09-673-395A-133	Sequence 133, App

TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 208:
SEQUENCE CHARACTERISTICS:
LENGTH: 16442 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-781-891-208

Query Match 3.8%; Score 50.8; DB 3; Length 16442;
Best Local Similarity 56.6%; Pred. No. 0.0057;
Matches 94; Conservative 0; Mismatches 72; Indels 0; Gaps 0;
QY 118 CTGCTGTTCTCCCTGTTCCCGGTGCAGGTGCAGACCTGATAGTGTGATCATCGGG 177
DB 16268 CTCTGCTGCTC 16327
QY 178 ATGCTGCTGCTC 237
DB 16328 CTC 16387
QY 238 CACATCTACCTGAGTATGTCCTCCACCTAAGCCCGATCCCTCC 283
DB 16388 CTCTGCTC 16433

RESULT 4

US-09-618-166-208
Sequence 208, Application US/09618166
Patent No. 6583112
GENERAL INFORMATION:
APPLICANT: Fu, Ying-Hui
Yu, Chang-En
Oshima, Junko
Mulligan, John T.
Schellenberg, Gerald D.
TITLE OF INVENTION: GENE AND GENE PRODUCTS RELATED TO
WERNER'S SYNDROME
NUMBER OF SEQUENCES: 209
CORRESPONDENCE ADDRESS:
ADDRESSEE: Seed Intellectual Property Law Group
STREET: 701 Fifth Avenue, Suite 6300
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/618,166
FILING DATE: 17-Jul-2000
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: McWaters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 240052.419C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 208:
SEQUENCE CHARACTERISTICS:
LENGTH: 16442 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 208:
US-09-618-166-208

Query Match 3.8%; Score 50.8; DB 4; Length 16442;
Best Local Similarity 56.8%; Pred. No. 0.0057;
Matches 94; Conservative 0; Mismatches 72; Indels 0; Gaps 0;
QY 118 CTGCTGTTCTCCCTGTTCCCGGTGCAGGTGCAGACCTGATAGTGTGATCATCGGG 177
DB 16268 CTCTGCTGCTC 16327
QY 178 ATGCTGCTGCTC 237
DB 16328 CTC 16387
QY 238 CACATCTACCTGAGTATGTCCTCCACCTAAGCCCGATCCCTCC 283
DB 16388 CTCTGCTC 16433

RESULT 5

US-08-728-323A-1/c
Sequence 1, Application US/08728323A
Patent No. 5948676
GENERAL INFORMATION:
APPLICANT: Chang, Yuan
APPLICANT: Bohenzky, Roy A.
APPLICANT: Russo, James J.
APPLICANT: Edelman, Isidore S.
APPLICANT: Moore, Patrick S.
TITLE OF INVENTION: Immediate Early Protein From Kaposi's
Sarcoma-Associated Herpesvirus, DNA
TITLE OF INVENTION: Encoding Same And Uses Thereof
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/728,323A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 0575/52268/JPW/MSK/SKS
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-278-0400
TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3489 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 1..3489
US-08-728-323A-1

Query Match 3.8%; Score 50.6; DB 2; Length 3489;
Best Local Similarity 54.0%; Pred. No. 0.0026;
Matches 127; Conservative 0; Mismatches 104; Indels 4; Gaps 1;
QY 15 ATGCTGCTGCTGATCGCCATCTCTGCTGATGTCCTGCTCCAGTACCTCGGACCCCGGG 74
DB 2334 ATCCTCTAACTC 2275

; Patent No. 5849564
; GENERAL INFORMATION:
; APPLICANT: Chang, Yuan
; APPLICANT: Bohenzky, Roy A.
; APPLICANT: Russo, James J.
; APPLICANT: Edelman, Isidore S.
; APPLICANT: Moore, Patrick S.
; TITLE OF INVENTION: POLYPEPTIDES FROM KAPOSI'S SARCOMA-ASSOCIATED
; TITLE OF INVENTION: HERPESVIRUS, DNA ENCODING SAME AND USES THEREOF
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/770,379
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 52342
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 278-0400
; TELEFAX: (212) 391-0525
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 32207 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-770-379-20

Query Match 3.8%; Score 50.6; DB 2; Length 32207;
Best Local Similarity 54.0%; Pred. No. 0.0095;
Matches 127; Conservative 0; Mismatches 104; Indels 4; Gaps 1;

Qy 15 ATGCTCTGCTGATCGGCATCTGCTATGTCCTCTCGTCAGTACCTCGTGAACCCCGG 74
Db 19663 ATCTCTAACTCTGCTCTCTCTAACTCTGCTCTCTCTCTCTCTCTCTCTCTCTG 19722

Qy 75 GTGCTCGGCAGGACCCAGATGTCAAGAAATATGAACACGTGGCTGTCTTCTCCCCCT 134
Db 19723 CTCTCTCTGCTGCTCC---TGTTTCATCTGCTGCTGCTGCTGCTGCTGCTGCT 19778

Qy 135 GTTCCCGGTGAGTGAGACCTCTGATGTCGTCATCATCGGATGCTGCTGCTGCTGCT 194
Db 19779 CATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 19838

Qy 195 GGACTTCTTGGCTGTCACCTGGCCAGCTGCTCATCTTCCACATCTACCTG 249
Db 19839 GCTGCTGCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 19893

RESULT 10
US-08-757-669A-20
; Sequence 20, Application US/08757669A
; Patent No. 6183751
; GENERAL INFORMATION:
; APPLICANT: Chang, Yuan
; APPLICANT: Bohenzky, Roy A.
; APPLICANT: Russo, James J.
; APPLICANT: Edelman, Isidore S.
; APPLICANT: Moore, Patrick S.

; TITLE OF INVENTION: UNIQUE ASSOCIATED KAPOSI'S SARCOMA VIRUS
; TITLE OF INVENTION: SEQUENCES AND USES THEREOF
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/757,669A
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 45185-F
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 278-0400
; TELEFAX: (212) 391-0525
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 32207 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-757-669A-20

Query Match 3.8%; Score 50.6; DB 3; Length 32207;
Best Local Similarity 54.0%; Pred. No. 0.0095;
Matches 127; Conservative 0; Mismatches 104; Indels 4; Gaps 1;

Qy 15 ATGCTCTGCTGATCGGCATCTGCTATGTCCTCTCGTCAGTACCTCGTGAACCCCGG 74
Db 19663 ATCTCTAACTCTGCTCTCTCTAACTCTGCTCTCTCTCTCTCTCTCTCTCTG 19722

Qy 75 GTGCTCGGCAGGACCCAGATGTCAAGAAATATGAACACGTGGCTGTCTTCTCCCCCT 134
Db 19723 CTCTCTCTGCTGCTCC---TGTTTCATCTGCTGCTGCTGCTGCTGCTGCTGCT 19778

Qy 135 GTTCCCGGTGAGTGAGACCTCTGATGTCGTCATCATCGGATGCTGCTGCTGCTGCT 194
Db 19779 CATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 19838

Qy 195 GGACTTCTTGGCTGTCACCTGGCCAGCTGCTCATCTTCCACATCTACCTG 249
Db 19839 GCTGCTGCTCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 19893

RESULT 11
US-09-230-371A-20
; Sequence 20, Application US/09230371A
; Patent No. 6348586
; GENERAL INFORMATION:
; APPLICANT: Chang, Yuan
; APPLICANT: Bohenzky, Roy A.
; APPLICANT: Russo, James J.
; APPLICANT: Edelman, Isidore S.
; APPLICANT: Moore, Patrick S.
; TITLE OF INVENTION: UNIQUE ASSOCIATED KAPOSI'S SARCOMA VIRUS SEQUENCES AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: 45185-G-PCT-US
; CURRENT APPLICATION NUMBER: US/09/230,371A
; CURRENT FILING DATE: 1999-11-17
; PRIOR APPLICATION NUMBER: PCT/US97/13346
; PRIOR FILING DATE: 1997-07-22

; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 32207
; TYPE: DNA
; ORGANISM: Kaposi's sarcoma-associated herpesvirus
US-09-230-371A-20

Query Match
Best Local Similarity 3.8%; Score 50.6; DB 3; Length 32207;
Matches 127; Conservative 0; Mismatches 104; Indels 4; Gaps 1;

15 ATGCTCTGCTGATCGCCATCTCTGTATGTCTGTCTGAGTACCTGTGACCCCGG 74
Db 19663 ATCTCTAACTCTGCTCTCTCTAACTCTGCTCTCTCTCTCTCTCTCTCTG 19722

75 GTGCTCGCAGGACCCAGATGTCAAGATATGACACGTGCTGTCTCTCTCTCTCT 134
Db 19723 CTCCTCTGCT 19778

135 GTTCCCGTGCAGTGCAGACCTGATAGTGTGATCATCGGATGCTGTCTCTCTCT 194
Db 19779 CATCTGCTGTGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 19838

195 GGACTTTCTTGGCTGTGTGACCTGGGCGAGCTCTCATCTTCCACATCTACTG 249
Db 19839 GCTGCTGCTCATCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 19893

RESULT 12
US-09-621-976-18332
; Sequence 18332, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 18332
; LENGTH: 191
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-621-976-18332

Query Match
Best Local Similarity 3.7%; Score 49.4; DB 4; Length 191;
Matches 68; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

1233 AGGGTTGAATTTTTTTTAAATGAAGTGAATGAAATCTCGATTAATCTACGGACA 1292
Db 93 AGGAGAGATGCTCTGTCAGTAAATAAAGTTAAATCAGTTTATTACTGCAAAAAA 152

1293 CAGAGCTGAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1331
Db 153 AA 191

RESULT 13
US-09-949-016-169225
; Sequence 169225, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 169225
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-169225

Query Match
Best Local Similarity 3.6%; Score 48.4; DB 4; Length 601;
Matches 73; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

117 GCTGCTGTCTCTCCCTCTCCCGTCCAGTGCAGACCTGATAGTACGTCGATCATCGG 176
Db 220 GCTGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 279

177 GATGCTGTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 230
Db 280 GCTGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 333

RESULT 14
US-09-149-476-66
; Sequence 66, Application US/09149476
; Patent No. 6420526
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: P2002P1
; CURRENT APPLICATION NUMBER: US/09/149,476
; CURRENT FILING DATE: 1998-09-08
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; EARLIER APPLICATION NUMBER: 60/040,162
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,333
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/038,621
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,626
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,334
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,336
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,163
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/047,600
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,615
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,597
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,502
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,633
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,583
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,617
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,618
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,503
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,592
; EARLIER FILING DATE: 1997-05-23

Tue Mar 15 07:47:50 2005

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; EARLIER APPLICATION NUMBER: 60/057,650
; EARLIER FILING DATE: 1997-09-05
; EARLIER APPLICATION NUMBER: 60/056,884
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/057,669
; EARLIER FILING DATE: 1997-09-05
; EARLIER APPLICATION NUMBER: 60/049,610
; EARLIER FILING DATE: 1997-06-13
; EARLIER APPLICATION NUMBER: 60/061,060
; EARLIER FILING DATE: 1997-10-02

Query Match      3.6%; Score 48.4; DB 3; Length 732;
Best Local Similarity 66.0%; Pred. No. 0.0044;
Matches 70; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

Qy 1227 TGCTGAGGGTTGAATTTTAAATGAAAGTCAATGAAATCACTGGATTAAATCCTA 1286
Db 618 TTCTTGAAAGTTTAATGTTTTTATTAGGAGATTAAAGAAATATAGGTCTACATATCA 677

Qy 1287 CGGACACAGACTGAAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1332
Db 678 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 723
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RESULT 15
US-09-668-097A-13
; Sequence 13, Application US/09668097A
; Patent No. 6673988
; GENERAL INFORMATION:
; APPLICANT: Cahoon, Edgar B.
; APPLICANT: Cahoon, Rebecca E.
; APPLICANT: Klein, Ted
; APPLICANT: Shen, Jennie
; TITLE OF INVENTION: Plant Lipases
; FILE REFERENCE: BB1401 US NA
; CURRENT APPLICATION NUMBER: US/09/668,097A
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/157309
; PRIOR FILING DATE: 1999-10-01
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 13
; LENGTH: 1662
; TYPE: DNA
; ORGANISM: Glycine max
US-09-668-097A-13
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Query Match      3.6%; Score 48.4; DB 4; Length 1662;
Best Local Similarity 64.0%; Pred. No. 0.007;
Matches 73; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

Qy 1219 TGTGTCTTCCTGAGGGTTGAATTTTAAATGAAAGTCAATGAAATCACTGGATT 1278
Db 1261 TCTGTATTCCATGATGACAATATATTAACTATTGTGTAIAAAAAAAAAAAAA 1320

Qy 1279 AAATCCTACCGACACAGAGCTGAAAAAIAAAAAAAAAAAAAAAAAAAAA 1332
Db 1321 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1374
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Search completed: March 11, 2005, 17:15:15
Job time : 283 secs

GenCore version 5.1.6
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Run on: March 11, 2005, 17:19:48 ; Search time 161 Seconds
(without alignments)
1443.176 Million cell updates/sec

Title: US-09-989-732-270

Perfect score: 730

Sequence: 1 MNTWLFLPLFPVQVOTLV.....QQAQEAELTPRAGVPGA 142

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Pred. No. is the number of results predicted by chance to have a

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SUMMARIES

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C 2 101 13.8 10321 4 US-09-949-016-16155 Sequence 16155, A

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C 4 90.5 12.4 1584 4 US-09-902-540-2497 Sequence 2497, Ap

C 5 90.5 12.4 16833 4 US-09-902-540-1112 Sequence 1112, Ap

C 6 90 12.3 17897 4 US-09-902-540-1182 Sequence 1182, Ap

C 7 89.5 12.3 50383 4 US-09-949-016-17600 Sequence 17600, A

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C 232	76	10.4	981	4	US-09-252-991A-8278	Sequence 8278, Ap	C 305	75	10.3	849	4	US-09-312-283C-20	Sequence 20, Appl
C 233	76	10.4	1080	4	US-09-266-965-53	Sequence 53, Appl	C 306	75	10.3	944	3	US-09-188-930-238	Sequence 238, App
C 234	76	10.4	1081	3	US-09-372-422A-33	Sequence 33, Appl	C 307	75	10.3	944	3	US-09-312-283C-238	Sequence 238, App
C 235	76	10.4	1741	4	US-09-221-013A-13	Sequence 13, Appl	C 308	75	10.3	1023	4	US-09-252-991A-1846	Sequence 1846, Ap
C 236	76	10.4	2632	4	US-09-949-016-4837	Sequence 4837, Ap	C 309	75	10.3	1878	4	US-09-620-312D-263	Sequence 263, App
C 237	76	10.4	2681	4	US-09-566-921-108	Sequence 108, App	C 310	75	10.3	1879	6	5212296-5	Patent No. 5212296
C 238	76	10.4	3747	2	US-09-080-897-1	Sequence 1, Appl	C 311	75	10.3	1879	6	5212296-5	Patent No. 5212296
C 239	76	10.4	3747	3	US-09-323-735-1	Sequence 1, Appl	C 312	75	10.3	3271	4	US-09-548-797B-1	Sequence 1, Appl
C 240	76	10.4	16139	4	US-09-949-016-13278	Sequence 13278, A	C 313	75	10.3	3390	4	US-09-548-797B-2	Sequence 2, Appl
C 241	76	10.4	29905	4	US-09-949-016-16788	Sequence 16788, A	C 314	75	10.3	3582	4	US-09-548-797B-3	Sequence 3, Appl
C 242	76	10.4	33411	4	US-09-949-016-15201	Sequence 15201, A	C 315	75	10.3	4604	4	US-09-902-540-602	Sequence 602, App
C 243	76	10.4	43267	4	US-09-949-016-17117	Sequence 17117, A	C 316	75	10.3	12317	4	US-09-949-016-14782	Sequence 14782, A
C 244	76	10.4	52199	4	US-09-949-016-12763	Sequence 12763, A	C 317	75	10.3	24538	4	US-09-949-016-13100	Sequence 13100, A
C 245	76	10.4	52203	4	US-09-949-016-16330	Sequence 16330, A	C 318	75	10.3	29430	4	US-09-544-398B-7	Sequence 7, Appl
C 246	76	10.4	53500	4	US-09-266-965-76	Sequence 76, Appl	C 319	75	10.3	29430	4	US-09-544-398B-7	Sequence 7, Appl
C 247	76	10.4	129778	4	US-09-949-016-12191	Sequence 12191, A	C 320	75	10.3	42250	4	US-09-949-016-15426	Sequence 15426, A
C 248	76	10.4	129778	4	US-09-949-016-12191	Sequence 12191, A	C 321	75	10.3	42450	4	US-09-815-048-3	Sequence 3, Appl
C 249	76	10.4	304533	4	US-09-949-016-15371	Sequence 15371, A	C 322	75	10.3	50937	3	US-09-428-517-1	Sequence 1, Appl
C 250	76	10.4	304533	4	US-09-949-016-15372	Sequence 15372, A	C 323	75	10.3	87039	4	US-09-949-016-15691	Sequence 3, Appl
C 251	76	10.4	670689	4	US-09-949-016-12505	Sequence 12505, A	C 324	75	10.3	121982	4	US-09-949-016-12085	Sequence 12085, A
C 252	76	10.4	670690	4	US-09-949-016-14207	Sequence 14207, A	C 325	75	10.3	121982	4	US-09-949-016-14105	Sequence 14105, A
C 253	76	10.4	767677	4	US-09-949-016-12147	Sequence 12147, A	C 326	75	10.3	140844	4	US-09-949-016-14199	Sequence 14199, A
C 254	76	10.4	767677	4	US-09-949-016-17361	Sequence 17361, A	C 327	75	10.3	4403765	3	US-09-103-840A-2	Sequence 2, Appl
C 255	75.5	10.3	330	4	US-09-513-999C-12862	Sequence 12862, A	C 328	74.5	10.2	436	4	US-09-513-999C-2248	Sequence 2248, Ap
C 256	75.5	10.3	601	4	US-09-949-016-128905	Sequence 128905, A	C 329	74.5	10.2	601	4	US-09-949-016-32547	Sequence 32547, A
C 257	75.5	10.3	825	4	US-09-266-965-58	Sequence 58, Appl	C 330	74.5	10.2	601	4	US-09-949-016-32547	Sequence 32547, A
C 258	75.5	10.3	967	4	US-09-302-540-7886	Sequence 7886, Ap	C 331	74.5	10.2	601	4	US-09-949-016-32547	Sequence 32547, A
C 259	75.5	10.3	2223	4	US-09-302-540-3967	Sequence 3967, Ap	C 332	74.5	10.2	601	4	US-09-949-016-32547	Sequence 32547, A
C 260	75.5	10.3	2940	3	US-09-195-868-11	Sequence 11, Appl	C 333	74.5	10.2	601	4	US-09-949-016-124462	Sequence 124462, A
C 261	75.5	10.3	3691	3	US-09-195-868-12	Sequence 12, Appl	C 334	74.5	10.2	601	4	US-09-949-016-138054	Sequence 138054, A
C 262	75.5	10.3	4147	3	US-08-560-005-1	Sequence 1, Appl	C 335	74.5	10.2	601	4	US-09-949-016-173576	Sequence 173576, A
C 263	75.5	10.3	4147	3	US-09-418-540-1	Sequence 1, Appl	C 336	74.5	10.2	601	4	US-09-949-016-185576	Sequence 185576, A
C 264	75.5	10.3	4147	3	US-09-369-528-1	Sequence 1, Appl	C 337	74.5	10.2	601	4	US-09-949-016-202209	Sequence 202209, A
C 265	75.5	10.3	4870	3	US-08-664-962B-7	Sequence 7, Appl	C 338	74.5	10.2	601	4	US-09-949-016-202210	Sequence 202210, A
C 266	75.5	10.3	4870	3	US-09-311-743-7	Sequence 7, Appl	C 339	74.5	10.2	1017	4	US-09-602-787A-653	Sequence 202211, A
C 267	75.5	10.3	5808	4	US-09-302-540-794	Sequence 794, Appl	C 340	74.5	10.2	1506	4	US-09-023-655-379	Sequence 653, App
C 268	75.5	10.3	6732	4	US-09-976-594-99	Sequence 99, Appl	C 341	74.5	10.2	1506	4	US-09-023-655-379	Sequence 379, App
C 269	75.5	10.3	7883	4	US-09-949-016-13183	Sequence 13183, A	C 342	74.5	10.2	1755	4	US-09-949-016-2716	Sequence 2716, App
C 270	75.5	10.3	9729	4	US-09-902-540-948	Sequence 948, App	C 343	74.5	10.2	1758	4	US-09-949-016-756	Sequence 756, App
C 271	75.5	10.3	11276	4	US-09-902-540-1034	Sequence 1034, Ap	C 344	74.5	10.2	1765	4	US-09-620-312D-843	Sequence 843, App
C 272	75.5	10.3	11673	4	US-09-949-016-13671	Sequence 13671, A	C 345	74.5	10.2	2257	4	US-09-949-016-2837	Sequence 2837, App
C 273	75.5	10.3	11726	4	US-09-949-016-16968	Sequence 16968, A	C 346	74.5	10.2	2257	4	US-09-949-016-2838	Sequence 2838, Ap
C 274	75.5	10.3	11726	4	US-09-949-016-16969	Sequence 16969, A	C 347	74.5	10.2	2257	4	US-09-949-016-2838	Sequence 2838, Ap
C 275	75.5	10.3	13945	4	US-09-949-016-16369	Sequence 16369, A	C 348	74.5	10.2	2638	4	US-09-252-991A-15153	Sequence 15153, A
C 276	75.5	10.3	15077	4	US-09-949-016-12441	Sequence 12441, A	C 349	74.5	10.2	2638	4	US-09-949-016-4047	Sequence 4047, Ap
C 277	75.5	10.3	15077	4	US-09-949-016-17577	Sequence 17577, A	C 350	74.5	10.2	3733	4	US-09-016-434-1090	Sequence 1090, Ap
C 278	75.5	10.3	16341	4	US-09-949-016-14579	Sequence 14579, A	C 351	74.5	10.2	4261	4	US-09-949-016-1551	Sequence 1551, Ap
C 279	75.5	10.3	16341	4	US-09-949-016-14580	Sequence 14580, A	C 352	74.5	10.2	4261	4	US-09-949-016-1551	Sequence 1551, Ap
C 280	75.5	10.3	16410	4	US-09-949-016-14580	Sequence 14580, A	C 353	74.5	10.2	4261	4	US-09-949-016-1551	Sequence 1551, Ap
C 281	75.5	10.3	16410	4	US-09-949-016-14580	Sequence 14580, A	C 354	74.5	10.2	4261	4	US-09-949-016-1551	Sequence 1551, Ap
C 282	75.5	10.3	18324	4	US-09-949-016-11967	Sequence 11967, A	C 355	74.5	10.2	4261	4	US-09-949-016-1551	Sequence 1551, Ap
C 283	75.5	10.3	19728	4	US-09-949-016-12506	Sequence 12506, A	C 356	74.5	10.2	4261	4	US-09-949-016-1551	Sequence 1551, Ap
C 284	75.5	10.3	19728	4	US-09-949-016-12506	Sequence 12506, A	C 357	74.5	10.2	4261	4	US-09-949-016-1551	Sequence 1551, Ap
C 285	75.5	10.3	30360	4	US-09-949-016-15716	Sequence 15716, A	C 358	74.5	10.2	4261	4	US-09-949-016-15716	Sequence 15716, A
C 286	75.5	10.3	31467	4	US-09-949-016-13134	Sequence 13134, A	C 359	74.5	10.2	4261	4	US-09-949-016-15716	Sequence 15716, A
C 287	75.5	10.3	31868	4	US-09-949-016-13134	Sequence 13134, A	C 360	74.5	10.2	4261	4	US-09-949-016-15716	Sequence 15716, A
C 288	75.5	10.3	36389	4	US-09-949-016-15399	Sequence 15399, A	C 361	74.5	10.2	4261	4	US-09-949-016-15399	Sequence 15399, A
C 289	75.5	10.3	37155	4	US-09-949-016-16945	Sequence 16945, A	C 362	74.5	10.2	4261	4	US-09-949-016-16945	Sequence 16945, A
C 290	75.5	10.3	41589	4	US-09-949-016-12867	Sequence 12867, A	C 363	74.5	10.2	4261	4	US-09-949-016-15789	Sequence 15789, A
C 291	75.5	10.3	41589	4	US-09-949-016-12867	Sequence 12867, A	C 364	74.5	10.2	4261	4	US-09-949-016-15789	Sequence 15789, A
C 292	75.5	10.3	41589	4	US-09-949-016-15666	Sequence 15666, A	C 365	74.5	10.2	4261	4	US-09-949-016-15666	Sequence 15666, A
C 293	75.5	10.3	41589	4	US-09-949-016-15666	Sequence 15666, A	C 366	74.5	10.2	4261	4	US-09-949-016-15666	Sequence 15666, A
C 294	75.5	10.3	56448	4	US-09-949-016-16463	Sequence 16463, A	C 367	74.5	10.2	4261	4	US-09-949-016-16463	Sequence 16463, A
C 295	75.5	10.3	60002	4	US-09-949-016-12464	Sequence 12464, A	C 368	74.5	10.2	4261	4	US-09-949-016-12464	Sequence 12464, A
C 296	75.5	10.3	60003	4	US-09-949-016-13823	Sequence 13823, A	C 369	74.5	10.2	4261	4	US-09-949-016-13823	Sequence 13823, A
C 297	75.5	10.3	152788	4	US-09-949-016-12775	Sequence 12775, A	C 370	74.5	10.2	4261	4	US-09-949-016-12775	Sequence 12775, A
C 298	75.5	10.3	152788	4	US-09-949-016-12775	Sequence 12775, A	C 371	74.5	10.2	4261	4	US-09-949-016-12775	Sequence 12775, A
C 299	75.5	10.3	152822	4	US-09-949-016-17518	Sequence 17518, A	C 372	74.5	10.2	4261	4	US-09-949-016-17518	Sequence 17518, A
C 300	75.5	10.3	4411529	3	US-09-103-840A-1	Sequence 1, Appl	C 373	74.5	10.2	4261	4	US-09-103-840A-1	Sequence 1, Appl
C 301	75	10.3	601	4	US-09-949-016-80823	Sequence 80823, A	C 374	74.5	10.2	4261	4	US-09-949-016-80823	Sequence 80823, A
C 302	75	10.3	601	4	US-09-949-016-178684	Sequence 178684, A	C 375	74.5	10.2	4261	4	US-09-949-016-178684	Sequence 178684, A
C 303	75	10.3	612	4	US-09-252-991A-2454	Sequence 2454, Ap	C 376	74.5	10.2	4261	4	US-09-252-991A-2454	Sequence 2454, Ap
C 304	75	10.3	849	3	US-09-188-930-20	Sequence 20, Appl	C 377	74	10.1	561	4	US-09-252-991A-1945	Sequence 1945, Ap

C 378	74	10.1	601	4	US-09-949-016-178683	Sequence 178683,	C 451	73.5	10.1	3337	3	US-09-092-458-1	Sequence 1, Appli
C 379	74	10.1	897	4	US-09-902-540-7777	Sequence 7777, Ap	C 452	73.5	10.1	3337	4	US-08-719-821C-1	Sequence 1, Appli
C 380	74	10.1	1438	2	US-08-845-742-1	Sequence 1, Appli	C 453	73.5	10.1	3627	4	US-09-134-000C-2351	Sequence 2351, Ap
C 381	74	10.1	1554	4	US-09-902-540-8905	Sequence 8905, Ap	C 454	73.5	10.1	8758	3	US-09-799-345-3	Sequence 3, Appli
C 382	74	10.1	1905	2	US-09-902-540-6551	Sequence 6551, Ap	C 455	73.5	10.1	8758	4	US-09-962-276-3	Sequence 3, Appli
C 383	74	10.1	2155	2	US-08-095-728B-5	Sequence 5, Appli	C 456	73.5	10.1	11199	4	US-09-902-540-1017	Sequence 1017, Ap
C 384	74	10.1	2155	5	PCT-US92-02320A-5	Sequence 5, Appli	C 457	73.5	10.1	16139	4	US-09-949-016-13278	Sequence 13278, A
C 385	74	10.1	2199	4	US-09-949-016-388	Sequence 388, App	C 458	73.5	10.1	18326	4	US-09-949-016-15625	Sequence 15625, A
C 386	74	10.1	2200	4	US-09-949-016-4899	Sequence 4899, App	C 459	73.5	10.1	20099	4	US-09-949-016-13074	Sequence 13074, A
C 387	74	10.1	2200	4	US-09-902-540-483	Sequence 483, App	C 460	73.5	10.1	22104	4	US-09-949-016-12745	Sequence 12745, A
C 388	74	10.1	2548	4	US-09-270-767-10740	Sequence 10740, A	C 461	73.5	10.1	22104	4	US-09-949-016-12763	Sequence 12763, A
C 389	74	10.1	2574	4	US-09-780-045-3	Sequence 3, Appli	C 462	73.5	10.1	23075	4	US-09-949-016-17126	Sequence 17126, A
C 390	74	10.1	2635	3	US-09-186-276B-57	Sequence 57, Appl	C 463	73.5	10.1	23075	4	US-09-902-540-1239	Sequence 1239, Ap
C 391	74	10.1	2635	3	US-08-842-445-57	Sequence 57, Appl	C 464	73.5	10.1	25048	4	US-09-949-016-12886	Sequence 12886, A
C 392	74	10.1	2635	3	US-09-186-188B-57	Sequence 57, Appl	C 465	73.5	10.1	53562	4	US-09-949-016-15017	Sequence 15017, A
C 393	74	10.1	2635	4	US-09-265-585C-57	Sequence 57, Appl	C 466	73.5	10.1	55551	4	US-09-949-016-12030	Sequence 12030, A
C 394	74	10.1	2731	4	US-09-976-594-281	Sequence 281, App	C 467	73.5	10.1	55551	4	US-09-949-016-12745	Sequence 12745, A
C 395	74	10.1	3036	1	US-08-306-691B-52	Sequence 52, Appl	C 468	73.5	10.1	172677	4	US-09-949-016-12763	Sequence 12763, A
C 396	74	10.1	3036	2	US-08-095-728B-1	Sequence 1, Appli	C 469	73	10.0	519	4	US-09-949-016-88993	Sequence 88993, A
C 397	74	10.1	3036	5	PCT-US92-02320A-1	Sequence 1, Appli	C 470	73	10.0	601	4	US-09-949-016-148780	Sequence 148780, A
C 398	74	10.1	3431	3	US-09-632-098-1	Sequence 1, Appli	C 471	73	10.0	601	4	US-09-949-016-189008	Sequence 189008, A
C 399	74	10.1	3431	4	US-10-177-308-1	Sequence 1, Appli	C 472	73	10.0	601	4	US-09-949-016-206516	Sequence 206516, A
C 400	74	10.1	3468	3	US-09-632-098-3	Sequence 3, Appli	C 473	73	10.0	672	4	US-09-949-016-189008	Sequence 189008, A
C 401	74	10.1	3468	3	US-10-177-308-3	Sequence 3, Appli	C 474	73	10.0	852	4	US-08-270-767-9935	Sequence 9935, Ap
C 402	74	10.1	3511	3	US-08-892-747-13	Sequence 1248, Ap	C 475	73	10.0	1074	4	US-09-902-540-5894	Sequence 5894, Ap
C 403	74	10.1	4079	4	US-09-016-434-1248	Sequence 1248, Ap	C 476	73	10.0	1074	4	US-09-902-540-5786	Sequence 5786, Ap
C 404	74	10.1	4517	4	US-09-949-016-4573	Sequence 4573, Ap	C 477	73	10.0	1152	4	US-09-902-540-8343	Sequence 8343, Ap
C 405	74	10.1	4519	4	US-09-023-655-1202	Sequence 1202, Ap	C 478	73	10.0	1403	4	US-09-902-540-163	Sequence 163, App
C 406	74	10.1	4519	4	US-09-949-016-650	Sequence 650, App	C 479	73	10.0	1869	4	US-09-902-540-8930	Sequence 8930, Ap
C 407	74	10.1	4519	4	US-09-492-027-3	Sequence 3, Appli	C 480	73	10.0	2070	4	US-09-248-796A-4653	Sequence 4653, Ap
C 408	74	10.1	5350	3	US-08-826-134-3	Sequence 3, Appli	C 481	73	10.0	2095	4	US-09-558-166-4	Sequence 4, Appli
C 409	74	10.1	5989	4	US-09-949-016-13549	Sequence 13549, A	C 482	73	10.0	3489	2	US-08-728-323A-1	Sequence 1, Appli
C 410	74	10.1	6250	4	US-09-902-540-773	Sequence 773, App	C 483	73	10.0	3489	4	US-09-298-568A-1	Sequence 1, Appli
C 411	74	10.1	9608	4	US-09-949-016-17096	Sequence 17096, A	C 484	73	10.0	3489	4	US-09-410-399-1	Sequence 1, Appli
C 412	74	10.1	12603	4	US-09-949-016-17096	Sequence 17096, A	C 485	73	10.0	3552	4	US-09-894-273-1	Sequence 1, Appli
C 413	74	10.1	17000	4	US-09-548-797B-7	Sequence 7, Appli	C 486	73	10.0	4176	4	US-09-614-221A-41	Sequence 41, Appl
C 414	74	10.1	25700	4	US-09-949-016-13338	Sequence 13338, A	C 487	73	10.0	6898	4	US-09-902-540-872	Sequence 872, App
C 415	74	10.1	28223	4	US-09-949-016-12368	Sequence 12368, A	C 488	73	10.0	8310	3	US-09-902-540-862	Sequence 862, App
C 416	74	10.1	28843	4	US-09-949-016-17325	Sequence 17325, A	C 489	73	10.0	8310	3	US-09-870-126-11	Sequence 11, Appl
C 417	74	10.1	30536	4	US-09-949-016-12268	Sequence 12268, A	C 490	73	10.0	8438	1	US-09-445-247-11	Sequence 11, Appl
C 418	74	10.1	30537	4	US-09-949-016-16508	Sequence 16508, A	C 491	73	10.0	8992	4	US-07-945-283-1	Sequence 1, Appli
C 419	74	10.1	30773	4	US-09-949-016-17206	Sequence 17206, A	C 492	73	10.0	14985	1	US-09-902-540-952	Sequence 952, App
C 420	74	10.1	30773	4	US-09-949-016-12332	Sequence 12332, A	C 493	73	10.0	14985	5	PCT-US96-06231A-6	Sequence 6, Appli
C 421	74	10.1	46085	4	US-09-949-016-13547	Sequence 13547, A	C 494	73	10.0	15852	3	US-09-422-936-60	Sequence 60, Appl
C 422	74	10.1	46085	4	US-09-949-016-13548	Sequence 13548, A	C 495	73	10.0	16562	4	US-09-949-016-13892	Sequence 13892, A
C 423	74	10.1	54220	4	US-09-949-016-15422	Sequence 15422, A	C 496	73	10.0	16562	4	US-09-902-540-1182	Sequence 1182, Ap
C 424	74	10.1	87216	4	US-09-949-016-15891	Sequence 15891, A	C 497	73	10.0	19112	4	US-09-949-016-17541	Sequence 17541, A
C 425	74	10.1	114793	4	US-10-148-806-3	Sequence 3, Appli	C 498	73	10.0	19598	4	US-09-949-016-12666	Sequence 12666, A
C 426	74	10.1	119032	4	US-09-949-016-12160	Sequence 12160, A	C 499	73	10.0	21210	4	US-09-949-016-17328	Sequence 17328, A
C 427	74	10.1	119032	4	US-09-949-016-17268	Sequence 17268, A	C 500	73	10.0	21211	4	US-08-770-379-20	Sequence 20, Appl
C 428	74	10.1	145928	4	US-09-949-016-15444	Sequence 15444, A	C 501	73	10.0	32207	3	US-08-757-669A-20	Sequence 20, Appl
C 429	74	10.1	178883	4	US-09-949-016-12733	Sequence 12733, A	C 502	73	10.0	32207	3	US-09-230-371A-20	Sequence 20, Appl
C 430	74	10.1	178884	4	US-09-949-016-13039	Sequence 13039, A	C 503	73	10.0	32207	3	US-09-949-016-15232	Sequence 15232, A
C 431	74	10.1	181429	4	US-09-949-016-12372	Sequence 12372, A	C 504	73	10.0	35937	4	US-09-949-016-15304	Sequence 15304, A
C 432	74	10.1	181430	4	US-09-949-016-15772	Sequence 15772, A	C 505	73	10.0	36954	4	US-09-949-016-15304	Sequence 15304, A
C 433	74	10.1	202001	4	US-09-734-674-3	Sequence 3, Appli	C 506	73	10.0	39251	4	US-09-949-016-16633	Sequence 16633, A
C 434	73.5	10.1	507	4	US-09-252-991A-14417	Sequence 14417, A	C 507	73	10.0	72704	4	US-09-902-540-1273	Sequence 1273, Ap
C 435	73.5	10.1	601	4	US-09-949-016-23891	Sequence 23891, A	C 508	73	10.0	88950	4	US-09-949-016-17150	Sequence 17150, A
C 436	73.5	10.1	601	4	US-09-949-016-46239	Sequence 46239, A	C 509	73	10.0	138693	4	US-09-949-016-16724	Sequence 16724, A
C 437	73.5	10.1	777	4	US-09-252-991A-12864	Sequence 12864, A	C 510	73	10.0	162465	4	US-09-949-016-14264	Sequence 14264, A
C 438	73.5	10.1	976	1	US-08-125-628-7	Sequence 7, Appli	C 511	73	10.0	385136	4	US-09-949-016-16073	Sequence 16073, A
C 439	73.5	10.1	976	1	US-08-125-628-8	Sequence 8, Appli	C 512	73	10.0	392000	4	US-10-027-983-11	Sequence 11, Appl
C 440	73.5	10.1	2140	4	US-09-902-540-448	Sequence 448, App	C 513	72.5	9.9	601	4	US-09-949-016-22391	Sequence 22391, A
C 441	73.5	10.1	2196	4	US-09-902-540-359	Sequence 359, App	C 514	72.5	9.9	601	4	US-09-949-016-26351	Sequence 26351, A
C 442	73.5	10.1	2196	4	US-09-902-540-6388	Sequence 6388, App	C 515	72.5	9.9	601	4	US-09-949-016-80824	Sequence 80824, A
C 443	73.5	10.1	2585	4	US-09-902-540-424	Sequence 424, App	C 516	72.5	9.9	601	4	US-09-949-016-138055	Sequence 138055, A
C 444	73.5	10.1	2779	4	US-09-902-540-474	Sequence 474, App	C 517	72.5	9.9	601	4	US-09-949-016-142324	Sequence 142324, A
C 445	73.5	10.1	2912	4	US-09-962-665-14	Sequence 14, Appl	C 518	72.5	9.9	601	4	US-09-949-016-154196	Sequence 154196, A
C 446	73.5	10.1	2912	4	US-09-963-333-14	Sequence 14, Appl	C 519	72.5	9.9	601	4	US-09-949-016-167315	Sequence 167315, A
C 447	73.5	10.1	2912	4	US-09-963-677-14	Sequence 14, Appl	C 520	72.5	9.9	601	4	US-09-949-016-173577	Sequence 173577, A
C 448	73.5	10.1	3321	1	US-09-023-655-1361	Sequence 1361, Ap	C 521	72.5	9.9	601	4	US-09-949-016-183240	Sequence 183240, A
C 449	73.5	10.1	3337	1	US-08-072-610-1	Sequence 1, Appli	C 522	72.5	9.9	601	4	US-09-949-016-183240	Sequence 204571, A
C 450	73.5	10.1	3337	2	US-08-719-822B-1	Sequence 1, Appli	C 523	72.5	9.9	601	4	US-09-949-016-204571	Sequence 204571, A

524	72.5	9.9	601	4	US-09-949-016-204572	Sequence 204572,	c 597	72	9.9	601	4	US-09-949-016-126262	Sequence 126262,
525	72.5	9.9	760	1	US-08-276-452A-49	Sequence 49, Appl	c 598	72	9.9	601	4	US-09-949-016-124278	Sequence 124278,
526	72.5	9.9	760	2	US-08-798-744-49	Sequence 49, Appl	c 599	72	9.9	601	4	US-09-949-016-172910	Sequence 172910,
527	72.5	9.9	945	4	US-09-671-050-11	Sequence 11, Appl	c 600	72	9.9	601	4	US-09-949-016-172918	Sequence 172918,
528	72.5	9.9	972	4	US-09-671-050-5	Sequence 5, Appl	c 601	72	9.9	601	4	US-09-949-016-188098	Sequence 188098,
529	72.5	9.9	1399	4	US-09-902-540-367	Sequence 367, App	c 602	72	9.9	623	3	US-09-043-303-5	Sequence 5, Appl
530	72.5	9.9	1399	4	US-09-902-540-6274	Sequence 6274, Ap	c 603	72	9.9	825	4	US-09-252-991A-11151	Sequence 11151, A
531	72.5	9.9	1599	1	US-08-285-440-11	Sequence 11, Appl	c 604	72	9.9	1023	4	US-09-142-593-3	Sequence 3, Appl
532	72.5	9.9	1599	1	US-08-630-349-11	Sequence 11, Appl	c 605	72	9.9	1047	4	US-09-902-540-9045	Sequence 9045, App
533	72.5	9.9	1633	4	US-09-902-540-6509	Sequence 6509, Ap	c 606	72	9.9	1198	4	US-09-949-016-835	Sequence 835, App
534	72.5	9.9	1677	1	US-08-285-440-12	Sequence 12, Appl	c 607	72	9.9	1263	4	US-09-252-991A-11039	Sequence 11039, A
535	72.5	9.9	1677	1	US-08-630-349-12	Sequence 12, Appl	c 608	72	9.9	1263	4	US-09-252-991A-15423	Sequence 15423, A
536	72.5	9.9	1686	3	US-08-029-170-30	Sequence 30, Appl	c 609	72	9.9	1305	4	US-09-252-991A-13257	Sequence 13257, A
537	72.5	9.9	1686	4	US-09-443-745-30	Sequence 30, Appl	c 610	72	9.9	1367	4	US-09-023-655-817	Sequence 817, App
538	72.5	9.9	2137	1	US-08-285-440-13	Sequence 13, Appl	c 611	72	9.9	1401	3	US-08-952-457-1	Sequence 1, Appl
539	72.5	9.9	2137	1	US-08-630-349-13	Sequence 13, Appl	c 612	72	9.9	1590	4	US-09-252-991A-2259	Sequence 2259, App
540	72.5	9.9	2148	3	US-09-219-983A-19	Sequence 19, Appl	c 613	72	9.9	1590	4	US-09-252-991A-11216	Sequence 11216, A
541	72.5	9.9	2172	4	US-09-814-915A-16	Sequence 16, Appl	c 614	72	9.9	1663	4	US-09-398-522-108	Sequence 108, App
542	72.5	9.9	2215	1	US-08-285-440-14	Sequence 14, Appl	c 615	72	9.9	1845	4	US-09-949-016-1779	Sequence 1779, App
543	72.5	9.9	2215	1	US-08-630-349-14	Sequence 14, Appl	c 616	72	9.9	1851	4	US-09-949-016-480	Sequence 480, App
544	72.5	9.9	2368	1	US-08-653-740-2	Sequence 2, Appl	c 617	72	9.9	2540	4	US-09-799-451-463	Sequence 463, App
545	72.5	9.9	2368	2	US-09-073-594-2	Sequence 2, Appl	c 618	72	9.9	2561	4	US-09-616-289-48	Sequence 48, Appl
546	72.5	9.9	2368	3	US-09-275-925-2	Sequence 2, Appl	c 619	72	9.9	2790	3	US-08-985-950-21	Sequence 21, Appl
547	72.5	9.9	2492	3	US-09-219-983A-18	Sequence 18, Appl	c 620	72	9.9	2790	4	US-09-546-049-21	Sequence 21, Appl
548	72.5	9.9	2603	4	US-09-902-540-470	Sequence 470, App	c 621	72	9.9	2847	4	US-09-502-540-7588	Sequence 7588, App
549	72.5	9.9	2663	1	US-08-653-740-4	Sequence 4, Appl	c 622	72	9.9	4089	4	US-09-902-540-7372	Sequence 7372, Ap
550	72.5	9.9	2663	4	US-09-073-594-4	Sequence 4, Appl	c 623	72	9.9	4090	4	US-09-902-540-706	Sequence 706, App
551	72.5	9.9	2663	3	US-09-275-925-4	Sequence 4, Appl	c 624	72	9.9	4378	2	US-09-080-897-3	Sequence 3, Appl
552	72.5	9.9	2845	4	US-09-949-016-608	Sequence 608, App	c 625	72	9.9	4378	3	US-09-323-735-3	Sequence 3, Appl
553	72.5	9.9	2847	4	US-09-949-016-1346	Sequence 1346, Ap	c 626	72	9.9	4399	3	US-08-899-595-2	Sequence 2, Appl
554	72.5	9.9	3014	1	US-08-629-939-1	Sequence 1, Appl	c 627	72	9.9	5822	3	US-08-899-595-4	Sequence 4, Appl
555	72.5	9.9	3014	1	US-08-759-873-1	Sequence 1, Appl	c 628	72	9.9	5822	3	US-08-899-595-5	Sequence 5, Appl
556	72.5	9.9	3014	4	US-09-016-434-1244	Sequence 1244, Ap	c 629	72	9.9	5924	1	US-08-447-411-44	Sequence 44, Appl
557	72.5	9.9	3732	4	US-09-949-016-328	Sequence 328, App	c 630	72	9.9	5948	2	US-08-662-227-1	Sequence 1, Appl
558	72.5	9.9	3941	4	US-09-949-016-3128	Sequence 3128, Ap	c 631	72	9.9	5948	3	US-09-017-947-1	Sequence 1, Appl
559	72.5	9.9	3972	3	US-09-770-170-1	Sequence 1, Appl	c 632	72	9.9	5948	4	US-09-325-442-1	Sequence 1, Appl
560	72.5	9.9	4258	3	US-07-765-830A-5	Sequence 5, Appl	c 633	72	9.9	7011	1	US-08-306-691B-42	Sequence 42, Appl
561	72.5	9.9	4825	4	US-09-949-016-15912	Sequence 15912, A	c 634	72	9.9	7594	4	US-09-949-016-17582	Sequence 17582, A
562	72.5	9.9	4826	4	US-09-772-304A-1	Sequence 1, Appl	c 635	72	9.9	7704	4	US-09-902-540-743	Sequence 743, App
563	72.5	9.9	5001	4	US-09-949-016-4691	Sequence 4691, Ap	c 636	72	9.9	9969	4	US-09-669-980A-4	Sequence 4, Appl
564	72.5	9.9	5884	4	US-09-949-016-17129	Sequence 17129, A	c 637	72	9.9	11295	4	US-09-902-540-967	Sequence 967, App
565	72.5	9.9	6651	4	US-09-902-540-4944	Sequence 4944, Ap	c 638	72	9.9	11792	4	US-09-949-016-16634	Sequence 16634, A
566	72.5	9.9	9589	1	US-07-925-695-1	Sequence 1, Appl	c 639	72	9.9	11792	4	US-09-949-016-16635	Sequence 16635, A
567	72.5	9.9	9589	1	US-07-925-695-2	Sequence 2, Appl	c 640	72	9.9	12293	4	US-09-949-016-12222	Sequence 12222, A
568	72.5	9.9	9649	4	US-09-949-016-15672	Sequence 15672, A	c 641	72	9.9	12293	4	US-09-949-016-13521	Sequence 13521, A
569	72.5	9.9	22773	4	US-09-950-613A-6	Sequence 6, Appl	c 642	72	9.9	12323	4	US-09-949-016-16703	Sequence 16703, A
570	72.5	9.9	27707	4	US-09-302-540-1226	Sequence 1226, Ap	c 643	72	9.9	13875	2	US-08-734-344-1	Sequence 1, Appl
571	72.5	9.9	30780	4	US-09-902-540-1243	Sequence 1243, Ap	c 644	72	9.9	21535	4	US-09-949-016-12826	Sequence 12826, A
572	72.5	9.9	30847	4	US-09-949-016-16657	Sequence 16657, A	c 645	72	9.9	21535	4	US-09-949-016-12827	Sequence 12827, A
573	72.5	9.9	40237	4	US-09-949-016-16461	Sequence 16461, A	c 646	72	9.9	21535	4	US-09-949-016-12828	Sequence 12828, A
574	72.5	9.9	43726	4	US-09-949-016-17578	Sequence 17578, A	c 647	72	9.9	21535	4	US-09-949-016-12829	Sequence 12829, A
575	72.5	9.9	51723	4	US-09-949-016-12152	Sequence 12152, A	c 648	72	9.9	21536	4	US-09-949-016-13366	Sequence 13366, A
576	72.5	9.9	51723	4	US-09-949-016-16991	Sequence 16991, A	c 649	72	9.9	21536	4	US-09-949-016-13367	Sequence 13367, A
577	72.5	9.9	57811	4	US-09-949-016-13192	Sequence 13192, A	c 650	72	9.9	21536	4	US-09-949-016-13368	Sequence 13368, A
578	72.5	9.9	64309	4	US-09-949-016-14581	Sequence 14581, A	c 651	72	9.9	21536	4	US-09-949-016-13369	Sequence 13369, A
579	72.5	9.9	66480	4	US-09-949-016-14817	Sequence 14817, A	c 652	72	9.9	21721	4	US-09-269-939A-11	Sequence 11, Appl
580	72.5	9.9	96202	4	US-09-949-016-17521	Sequence 17521, A	c 653	72	9.9	27491	4	US-09-949-016-12442	Sequence 12442, A
581	72.5	9.9	97135	4	US-09-949-016-16433	Sequence 16433, A	c 654	72	9.9	36387	4	US-09-949-016-12370	Sequence 12370, A
582	72.5	9.9	97135	4	US-09-949-016-12212	Sequence 12212, A	c 655	72	9.9	36387	4	US-09-949-016-13862	Sequence 13862, A
583	72.5	9.9	97136	4	US-09-949-016-16971	Sequence 16971, A	c 656	72	9.9	41815	4	US-09-949-016-17447	Sequence 17447, A
584	72.5	9.9	124480	4	US-09-949-016-15921	Sequence 15921, A	c 657	72	9.9	55298	4	US-09-491-356C-1	Sequence 1, Appl
585	72.5	9.9	131254	4	US-09-949-016-13734	Sequence 13734, A	c 658	72	9.9	56326	4	US-09-949-016-16468	Sequence 16468, A
586	72.5	9.9	139936	4	US-09-949-016-11782	Sequence 11782, A	c 659	72	9.9	68283	4	US-09-949-016-12261	Sequence 12261, A
587	72.5	9.9	139952	4	US-09-949-016-13280	Sequence 13280, A	c 660	72	9.9	88036	4	US-09-949-016-15335	Sequence 15335, A
588	72	9.9	401	3	US-09-643-597-274	Sequence 274, App	c 661	72	9.9	95621	4	US-09-949-016-13237	Sequence 13237, A
589	72	9.9	401	4	US-09-480-884A-274	Sequence 274, App	c 662	72	9.9	96922	4	US-09-949-016-17061	Sequence 17061, A
590	72	9.9	401	4	US-09-542-615A-274	Sequence 274, App	c 663	72	9.9	106256	4	US-09-949-016-16858	Sequence 16858, A
591	72	9.9	401	4	US-09-606-421B-274	Sequence 274, App	c 664	72	9.9	118868	4	US-09-949-016-15746	Sequence 15746, A
592	72	9.9	401	4	US-09-630-940B-274	Sequence 274, App	c 665	72	9.9	120727	4	US-09-949-016-15787	Sequence 15787, A
593	72	9.9	465	4	US-09-621-976-15576	Sequence 15576, A	c 666	72	9.9	120727	4	US-09-949-016-15788	Sequence 15788, A
594	72	9.9	522	4	US-09-352-991A-15534	Sequence 15534, A	c 667	72	9.9	138282	4	US-09-949-016-15307	Sequence 15307, A
595	72	9.9	522	4	US-09-902-540-4871	Sequence 4871, Ap	c 668	72	9.9	161124	4	US-09-949-016-11760	Sequence 11760, A
596	72	9.9	601	4	US-09-949-016-30123	Sequence 30123, A	c 669	72	9.9	229354	4	US-09-705-400-64	Sequence 64, Appl

C 670	71.5	9.8	588	4	US-09-252-991A-2243	Sequence 2243, Ap	C 743	71.5	9.8	19203	4	US-09-949-016-15519	Sequence 15519, A
C 671	71.5	9.8	601	4	US-09-949-016-59046	Sequence 59046, A	C 744	71.5	9.8	19210	4	US-09-949-016-12129	Sequence 12129, A
C 672	71.5	9.8	601	4	US-09-949-016-164076	Sequence 164076, A	C 745	71.5	9.8	20250	4	US-09-902-540-1213	Sequence 1213, Ap
C 673	71.5	9.8	601	4	US-09-949-016-178693	Sequence 178693, A	C 746	71.5	9.8	21978	4	US-09-949-016-16646	Sequence 16646, A
C 674	71.5	9.8	678	4	US-09-902-540-5436	Sequence 5436, Ap	C 747	71.5	9.8	22906	4	US-09-949-016-16471	Sequence 16471, A
C 675	71.5	9.8	732	4	US-09-252-991A-2440	Sequence 2440, Ap	C 748	71.5	9.8	23051	4	US-09-949-016-16922	Sequence 16922, A
C 676	71.5	9.8	789	4	US-10-000-489-67	Sequence 67, Appl	C 749	71.5	9.8	23172	4	US-09-949-016-15161	Sequence 15161, A
C 677	71.5	9.8	963	4	US-09-902-540-4297	Sequence 4297, Ap	C 750	71.5	9.8	23825	4	US-09-949-016-13936	Sequence 13936, A
C 678	71.5	9.8	1083	4	US-09-252-991A-2517	Sequence 2517, Ap	C 751	71.5	9.8	24546	4	US-09-949-016-16638	Sequence 16638, A
C 679	71.5	9.8	1140	4	US-09-252-991A-14999	Sequence 14999, A	C 752	71.5	9.8	26896	4	US-09-949-016-16800	Sequence 16800, A
C 680	71.5	9.8	1242	4	US-09-252-991A-14749	Sequence 14749, A	C 753	71.5	9.8	28809	4	US-09-949-016-12825	Sequence 12825, A
C 681	71.5	9.8	1431	4	US-09-252-991A-2397	Sequence 2397, Ap	C 754	71.5	9.8	29357	4	US-09-949-016-16676	Sequence 16676, A
C 682	71.5	9.8	1488	4	US-09-252-991A-14879	Sequence 14879, A	C 755	71.5	9.8	30001	1	US-08-125-468-1	Sequence 1, Appl
C 683	71.5	9.8	1554	4	US-09-794-960-3	Sequence 3, Appl	C 756	71.5	9.8	30001	2	US-08-474-933-1	Sequence 1, Appl
C 684	71.5	9.8	1896	3	US-09-345-468-24	Sequence 24, Appl	C 757	71.5	9.8	31300	4	US-09-949-016-16967	Sequence 16967, A
C 685	71.5	9.8	1896	3	US-09-414-453A-24	Sequence 24, Appl	C 758	71.5	9.8	33675	4	US-09-949-016-13505	Sequence 13505, A
C 686	71.5	9.8	2001	3	US-09-422-869-7	Sequence 7, Appl	C 759	71.5	9.8	36302	4	US-09-949-016-11998	Sequence 11998, A
C 687	71.5	9.8	2007	4	US-09-252-991A-5770	Sequence 5770, Ap	C 760	71.5	9.8	36302	4	US-09-949-016-13891	Sequence 13891, A
C 688	71.5	9.8	2094	4	US-09-252-991A-7438	Sequence 7438, Ap	C 761	71.5	9.8	36519	3	US-08-923-137-2	Sequence 2, Appl
C 689	71.5	9.8	2170	3	US-09-345-468-11	Sequence 11, Appl	C 762	71.5	9.8	41612	4	US-09-949-016-12769	Sequence 12769, A
C 690	71.5	9.8	2170	3	US-09-414-453A-11	Sequence 11, Appl	C 763	71.5	9.8	41639	4	US-09-949-016-12773	Sequence 12773, A
C 691	71.5	9.8	2180	4	US-09-794-960-1	Sequence 1, Appl	C 764	71.5	9.8	41804	4	US-09-949-016-12154	Sequence 12154, A
C 692	71.5	9.8	2204	3	US-09-422-869-9	Sequence 9, Appl	C 765	71.5	9.8	41893	4	US-09-949-016-14161	Sequence 14161, A
C 693	71.5	9.8	2227	3	US-09-422-869-5	Sequence 5, Appl	C 766	71.5	9.8	51354	4	US-09-902-540-1270	Sequence 1270, Ap
C 694	71.5	9.8	2357	4	US-09-949-016-4056	Sequence 4056, Ap	C 767	71.5	9.8	52072	4	US-09-949-016-16076	Sequence 16076, A
C 695	71.5	9.8	2357	4	US-09-949-016-4057	Sequence 4057, Ap	C 768	71.5	9.8	81681	4	US-09-949-016-13274	Sequence 13274, A
C 696	71.5	9.8	2357	4	US-09-949-016-4058	Sequence 4058, Ap	C 769	71.5	9.8	81681	4	US-09-949-016-13274	Sequence 13274, A
C 697	71.5	9.8	2357	4	US-09-949-016-4059	Sequence 4059, Ap	C 770	71.5	9.8	109159	4	US-09-949-016-14169	Sequence 14169, A
C 698	71.5	9.8	2357	4	US-09-949-016-4060	Sequence 4060, Ap	C 771	71.5	9.8	109159	4	US-09-949-016-14170	Sequence 14170, A
C 699	71.5	9.8	2357	4	US-09-949-016-4061	Sequence 4061, Ap	C 772	71.5	9.8	154746	4	US-09-827-688-8	Sequence 8, Appl
C 700	71.5	9.8	2455	3	US-09-422-869-13	Sequence 13, Appl	C 773	71.5	9.8	154746	4	US-09-949-016-14033	Sequence 14033, A
C 701	71.5	9.8	2516	3	US-09-422-869-11	Sequence 11, Appl	C 774	71.5	9.8	828152	4	US-09-949-016-12777	Sequence 12777, A
C 702	71.5	9.8	2608	4	US-09-949-016-3050	Sequence 3050, Ap	C 775	71.5	9.8	828152	4	US-09-949-016-53039	Sequence 53039, A
C 703	71.5	9.8	2608	4	US-09-949-016-3051	Sequence 3051, Ap	C 776	71.5	9.8	828152	4	US-09-949-016-93956	Sequence 93956, A
C 704	71.5	9.8	2608	4	US-09-949-016-3052	Sequence 3052, Ap	C 777	71.5	9.8	828152	4	US-09-949-016-138264	Sequence 138264, A
C 705	71.5	9.8	2608	4	US-09-949-016-3053	Sequence 3053, Ap	C 778	71.5	9.8	828152	4	US-09-949-016-150574	Sequence 150574, A
C 706	71.5	9.8	2608	4	US-09-949-016-3054	Sequence 3054, Ap	C 779	71.5	9.8	828152	4	US-09-949-016-161247	Sequence 161247, A
C 707	71.5	9.8	2620	3	US-09-422-869-3	Sequence 3, Appl	C 780	71.5	9.8	828152	4	US-09-252-991A-11810	Sequence 11810, A
C 708	71.5	9.8	2669	4	US-09-949-016-3055	Sequence 3055, Ap	C 781	71.5	9.8	828152	4	US-08-770-379-16	Sequence 16, Appl
C 709	71.5	9.8	2669	4	US-09-949-016-3056	Sequence 3056, Ap	C 782	71.5	9.8	828152	4	US-08-757-669A-16	Sequence 16, Appl
C 710	71.5	9.8	2669	4	US-09-949-016-3057	Sequence 3057, Ap	C 783	71.5	9.8	828152	4	US-09-230-371A-16	Sequence 16, Appl
C 711	71.5	9.8	2669	4	US-09-949-016-3058	Sequence 3058, Ap	C 784	71.5	9.8	828152	4	US-09-252-991A-11105	Sequence 11105, A
C 712	71.5	9.8	2669	4	US-09-949-016-3059	Sequence 3059, Ap	C 785	71.5	9.8	828152	4	US-09-270-767-12105	Sequence 12105, A
C 713	71.5	9.8	2669	4	US-09-949-016-3060	Sequence 3060, Ap	C 786	71.5	9.8	828152	4	US-09-252-991A-11162	Sequence 11162, A
C 714	71.5	9.8	3012	4	US-09-252-991A-7498	Sequence 7498, Ap	C 787	71.5	9.8	828152	4	US-08-475-634D-18	Sequence 18, Appl
C 715	71.5	9.8	3139	4	US-09-949-016-303	Sequence 303, App	C 788	71.5	9.8	828152	4	US-09-902-540-9445	Sequence 26, Appl
C 716	71.5	9.8	3141	4	US-09-949-016-4130	Sequence 4130, Ap	C 789	71.5	9.8	828152	4	US-09-721-870-27	Sequence 27, Appl
C 717	71.5	9.8	3167	4	US-09-949-016-3734	Sequence 3734, Ap	C 790	71.5	9.8	828152	4	US-09-002-0248-7	Sequence 7, Appl
C 718	71.5	9.8	3167	4	US-09-949-016-3735	Sequence 3735, Ap	C 791	71.5	9.8	828152	4	US-09-002-0248-7	Sequence 7, Appl
C 719	71.5	9.8	3168	4	US-09-774-528-409	Sequence 409, App	C 792	71.5	9.8	828152	4	US-09-016-434-1194	Sequence 1194, Ap
C 720	71.5	9.8	3786	4	US-09-919-039-351	Sequence 351, App	C 793	71.5	9.8	828152	4	US-09-949-016-1700	Sequence 1700, Ap
C 721	71.5	9.8	4104	4	US-09-614-221A-44	Sequence 44, Appl	C 794	71.5	9.8	828152	4	US-09-902-540-9297	Sequence 9297, Ap
C 722	71.5	9.8	4758	4	US-09-620-112D-840	Sequence 840, App	C 795	71.5	9.8	828152	4	US-09-902-540-9297	Sequence 21, Appl
C 723	71.5	9.8	4891	4	US-10-144-198-9	Sequence 9, Appl	C 796	71.5	9.8	828152	4	US-09-010-147B-21	Sequence 21, Appl
C 724	71.5	9.8	4898	4	US-09-919-497-35	Sequence 35, Appl	C 797	71.5	9.8	828152	4	US-09-489-039A-3382	Sequence 3382, Ap
C 725	71.5	9.8	5102	4	US-09-023-655-1426	Sequence 1426, Ap	C 798	71.5	9.8	828152	4	US-09-252-991A-8987	Sequence 8987, Ap
C 726	71.5	9.8	5102	4	US-09-919-497-8	Sequence 8, Appl	C 799	71.5	9.8	828152	4	US-09-252-991A-11513	Sequence 11513, A
C 727	71.5	9.8	5816	4	US-09-949-016-16900	Sequence 16900, A	C 800	71.5	9.8	828152	4	US-09-252-991A-2554	Sequence 2554, Ap
C 728	71.5	9.8	6063	1	US-08-195-744-4	Sequence 4, Appl	C 801	71.5	9.8	828152	4	US-09-902-540-2554	Sequence 14836, A
C 729	71.5	9.8	6063	2	US-08-788-279-4	Sequence 4, Appl	C 802	71.5	9.8	828152	4	US-09-902-540-4044	Sequence 4044, Ap
C 730	71.5	9.8	6267	4	US-09-902-540-5649	Sequence 5649, Ap	C 803	71.5	9.8	828152	4	US-09-902-540-4080	Sequence 4080, Ap
C 731	71.5	9.8	8671	4	US-09-949-016-15455	Sequence 15455, A	C 804	71.5	9.8	828152	4	US-09-902-540-4080	Sequence 9102, Ap
C 732	71.5	9.8	8798	4	US-09-949-016-14609	Sequence 14609, A	C 805	71.5	9.8	828152	4	US-09-252-991A-9102	Sequence 9105, Ap
C 733	71.5	9.8	9364	4	US-09-949-016-16777	Sequence 16777, A	C 806	71.5	9.8	828152	4	US-09-252-991A-9102	Sequence 172, App
C 734	71.5	9.8	9568	4	US-09-949-016-17571	Sequence 17571, A	C 807	71.5	9.8	828152	4	US-09-919-039-172	Sequence 3, Appl
C 735	71.5	9.8	9568	4	US-09-949-016-16843	Sequence 16843, A	C 808	71.5	9.8	828152	4	US-08-334-698-3	Sequence 3, Appl
C 736	71.5	9.8	13187	3	US-09-422-936-61	Sequence 61, Appl	C 809	71.5	9.8	828152	4	US-08-228-932-3	Sequence 3, Appl
C 737	71.5	9.8	14340	4	US-09-949-016-16972	Sequence 16972, A	C 810	71.5	9.8	828152	4	US-08-468-939-3	Sequence 3, Appl
C 738	71.5	9.8	15572	4	US-09-902-540-1131	Sequence 1131, Ap	C 811	71.5	9.8	828152	4	US-08-406-855A-3	Sequence 3, Appl
C 739	71.5	9.8	15725	4	US-09-949-016-16709	Sequence 16709, A	C 812	71.5	9.8	828152	4	US-08-722-190-3	Sequence 3, Appl
C 740	71.5	9.8	15775	4	US-09-949-016-16550	Sequence 16550, A	C 813	71.5	9.8	828152	4	US-08-244-354-3	Sequence 3, Appl
C 741	71.5	9.8	17425	3	US-09-511-625B-5	Sequence 5, Appl	C 814	71.5	9.8	828152	4	US-09-206-899-3	Sequence 3, Appl
C 742	71.5	9.8	17488	4	US-09-949-016-15574	Sequence 15574, A	C 815	71.5	9.8	828152	4	US-09-444-783-3	Sequence 3, Appl

816	71	9.7	1738	4	US-09-016-434-1402	Sequence 1402, Ap	889	71	9.7	76610	4	US-09-949-016-15521	Sequence 15521, A
817	71	9.7	1738	4	US-09-444-783-3	Sequence 3, Appli	c 890	71	9.7	81681	4	US-09-949-016-13274	Sequence 13274, A
818	71	9.7	1738	5	PCT-US95-04203-3	Sequence 3, Appli	c 891	71	9.7	81927	4	US-09-949-016-15623	Sequence 15623, A
c 819	71	9.7	1752	3	US-09-360-779-1	Sequence 1, Appli	892	71	9.7	87690	4	US-09-949-016-14853	Sequence 14853, A
c 820	71	9.7	1752	3	US-09-435-335-1	Sequence 1, Appli	893	71	9.7	101128	4	US-09-949-016-14293	Sequence 14293, A
821	71	9.7	1800	4	US-09-902-540-6154	Sequence 6154, Ap	894	71	9.7	104077	4	US-09-949-016-13593	Sequence 13593, A
c 822	71	9.7	1857	4	US-09-023-655-902	Sequence 902, App	c 895	71	9.7	129908	4	US-09-585-858-1	Sequence 1, Appli
c 823	71	9.7	1857	4	US-09-949-016-120	Sequence 120, App	c 896	71	9.7	129908	4	US-10-270-878-1	Sequence 1, Appli
824	71	9.7	1900	1	US-08-153-848-18	Sequence 18, Appl	897	71	9.7	136058	4	US-09-949-016-12565	Sequence 12565, A
825	71	9.7	1900	3	US-09-239-843A-18	Sequence 18, Appl	898	71	9.7	136480	4	US-09-949-016-17064	Sequence 17064, A
826	71	9.7	1900	3	US-09-088-337B-18	Sequence 18, Appl	899	71	9.7	153642	4	US-09-949-016-12174	Sequence 12174, A
827	71	9.7	1900	5	PCT-US93-11153-18	Sequence 18, Appl	900	71	9.7	153643	4	US-09-949-016-15635	Sequence 15635, A
828	71	9.7	2015	4	US-09-870-089B-1	Sequence 1, Appli	901	71	9.7	200663	4	US-09-949-016-12569	Sequence 12569, A
829	71	9.7	2018	4	US-09-949-016-5052	Sequence 5052, Ap	902	71	9.7	203093	4	US-09-949-016-14445	Sequence 14445, A
830	71	9.7	2019	4	US-09-919-039-173	Sequence 173, App	903	71	9.7	254964	4	US-09-949-016-12583	Sequence 12583, A
831	71	9.7	2160	1	US-08-153-848-14	Sequence 14, Appl	904	71	9.7	254964	4	US-09-949-016-17392	Sequence 17392, A
832	71	9.7	2160	3	US-09-299-843A-14	Sequence 14, Appl	c 905	70.5	9.7	381	2	US-08-621-751A-5	Sequence 5, Appli
833	71	9.7	2160	3	US-09-088-337B-14	Sequence 14, Appl	906	70.5	9.7	390	3	US-09-134-001C-635	Sequence 635, App
834	71	9.7	2160	5	PCT-US93-11153-14	Sequence 14, Appl	907	70.5	9.7	402	4	US-09-902-540-8782	Sequence 8782, Ap
835	71	9.7	2187	4	US-09-894-844-9	Sequence 9, Appli	c 908	70.5	9.7	411	4	US-09-513-999C-863	Sequence 863, App
c 836	71	9.7	2217	4	US-09-252-991A-14614	Sequence 14614, A	c 909	70.5	9.7	441	4	US-09-513-999C-2227	Sequence 2227, Ap
837	71	9.7	2217	4	US-09-976-594-385	Sequence 385, App	910	70.5	9.7	513	3	US-09-134-001C-647	Sequence 647, App
c 838	71	9.7	2301	3	US-09-085-199B-8	Sequence 8, Appli	911	70.5	9.7	535	3	US-09-094-287-8	Sequence 8, Appli
c 839	71	9.7	3842	4	US-09-976-594-279	Sequence 279, App	c 912	70.5	9.7	542	4	US-09-499-522-11	Sequence 11, Appli
840	71	9.7	4134	3	US-08-162-021B-1	Sequence 1, Appli	c 913	70.5	9.7	585	3	US-08-134-001C-726	Sequence 726, App
841	71	9.7	4134	3	US-09-687-477-17	Sequence 17, Appl	c 914	70.5	9.7	601	4	US-09-949-016-22390	Sequence 22390, A
842	71	9.7	4134	4	US-09-687-476-17	Sequence 17, Appl	c 915	70.5	9.7	601	4	US-09-949-016-25464	Sequence 25464, A
843	71	9.7	4134	4	US-09-687-372-17	Sequence 17, Appl	c 916	70.5	9.7	601	4	US-09-949-016-25465	Sequence 25465, A
844	71	9.7	4134	4	US-09-975-553-17	Sequence 17, Appl	c 917	70.5	9.7	601	4	US-09-949-016-25466	Sequence 25466, A
845	71	9.7	4134	4	US-10-270-795-17	Sequence 17, Appl	c 918	70.5	9.7	601	4	US-09-949-016-25467	Sequence 25467, A
846	71	9.7	4134	4	US-10-270-876-17	Sequence 17, Appl	c 919	70.5	9.7	601	4	US-09-949-016-73634	Sequence 73634, A
847	71	9.7	4134	4	US-10-268-051-7	Sequence 7, Appli	c 920	70.5	9.7	601	4	US-09-949-016-73635	Sequence 73635, A
c 848	71	9.7	4143	3	US-08-826-134-6	Sequence 6, Appli	c 921	70.5	9.7	601	4	US-09-949-016-73636	Sequence 73636, A
c 849	71	9.7	4326	4	US-09-252-991A-11572	Sequence 11572, A	c 922	70.5	9.7	601	4	US-09-949-016-73637	Sequence 73637, A
850	71	9.7	4473	4	US-09-365-486A-12	Sequence 12, Appl	c 923	70.5	9.7	601	4	US-09-949-016-138239	Sequence 138239, A
c 851	71	9.7	5057	2	US-08-880-342-12	Sequence 12, Appl	c 924	70.5	9.7	601	4	US-09-949-016-154195	Sequence 154195, A
c 852	71	9.7	5057	3	US-07-642-002-1	Sequence 1, Appli	c 925	70.5	9.7	601	4	US-09-949-016-176555	Sequence 176555, A
c 853	71	9.7	5108	1	US-09-949-016-16794	Sequence 16794, A	926	70.5	9.7	601	4	US-09-949-016-193826	Sequence 193826, A
854	71	9.7	6119	4	US-09-774-528-114	Sequence 114, App	927	70.5	9.7	601	4	US-09-949-016-193853	Sequence 193853, A
855	71	9.7	6222	4	US-09-902-540-973	Sequence 973, App	928	70.5	9.7	810	3	US-09-134-001C-624	Sequence 624, App
856	71	9.7	6330	4	US-09-902-540-718	Sequence 718, App	929	70.5	9.7	819	4	US-09-252-991A-5689	Sequence 5689, Ap
c 857	71	9.7	7765	4	US-09-949-016-12771	Sequence 12771, A	c 930	70.5	9.7	882	4	US-09-949-016-2156	Sequence 2156, Ap
c 858	71	9.7	7765	4	US-09-949-016-13824	Sequence 13824, A	c 931	70.5	9.7	933	4	US-09-489-039A-5062	Sequence 5062, Ap
c 859	71	9.7	10318	4	US-09-902-540-973	Sequence 973, App	932	70.5	9.7	1038	4	US-09-270-767-14747	Sequence 14747, A
860	71	9.7	11301	4	US-09-902-540-1046	Sequence 1046, Ap	933	70.5	9.7	1185	1	US-08-910-973-12	Sequence 12, Appl
861	71	9.7	12309	4	US-09-949-016-13709	Sequence 13709, A	934	70.5	9.7	1268	3	US-09-499-227-12	Sequence 12, Appl
862	71	9.7	12624	4	US-09-902-540-993	Sequence 993, App	935	70.5	9.7	1268	3	US-09-499-227-12	Sequence 12, Appl
c 863	71	9.7	13904	4	US-09-902-540-1076	Sequence 1076, Ap	c 936	70.5	9.7	1338	4	US-09-252-991A-6934	Sequence 6934, Ap
c 864	71	9.7	15377	4	US-09-902-540-1116	Sequence 1116, Ap	937	70.5	9.7	1385	4	US-09-270-767-12760	Sequence 12760, A
c 865	71	9.7	16389	3	US-09-741-154-3	Sequence 3, Appli	c 938	70.5	9.7	1524	4	US-09-252-991A-6861	Sequence 6861, Ap
c 866	71	9.7	16963	4	US-09-949-016-15592	Sequence 15592, A	c 939	70.5	9.7	1751	3	US-09-149-476-110	Sequence 110, App
867	71	9.7	17606	3	US-08-943-731-4	Sequence 4, Appli	940	70.5	9.7	1758	4	US-09-489-039A-3108	Sequence 3108, Ap
868	71	9.7	20017	4	US-09-949-016-17147	Sequence 17147, A	941	70.5	9.7	1947	2	US-08-989-925-2	Sequence 2, Appli
c 869	71	9.7	20721	4	US-09-949-016-16357	Sequence 16257, A	942	70.5	9.7	1965	3	US-09-178-252-26	Sequence 26, Appl
c 870	71	9.7	24029	4	US-09-949-016-14189	Sequence 14189, A	943	70.5	9.7	1965	3	US-09-826-660-26	Sequence 26, Appl
c 871	71	9.7	24602	4	US-09-902-540-1202	Sequence 1202, Ap	c 944	70.5	9.7	2087	4	US-09-949-016-4892	Sequence 4892, Ap
872	71	9.7	24986	4	US-09-902-540-1200	Sequence 1200, Ap	c 945	70.5	9.7	2087	4	US-09-949-016-4893	Sequence 4893, Ap
c 873	71	9.7	28374	4	US-09-949-016-17508	Sequence 17508, A	946	70.5	9.7	2467	4	US-09-799-451-628	Sequence 628, App
c 874	71	9.7	29598	3	US-09-341-587-6	Sequence 6, Appli	c 947	70.5	9.7	2629	2	US-09-012-030-1	Sequence 1, Appli
c 875	71	9.7	31331	4	US-09-949-016-14319	Sequence 14319, A	c 948	70.5	9.7	2629	2	US-08-590-454-1	Sequence 1, Appli
c 876	71	9.7	31391	4	US-09-949-016-14319	Sequence 14319, A	949	70.5	9.7	2941	4	US-09-949-016-2167	Sequence 2167, Ap
c 877	71	9.7	35966	4	US-09-949-016-12016	Sequence 12016, A	c 950	70.5	9.7	3117	4	US-09-081-385-6	Sequence 6, Appli
c 878	71	9.7	35967	4	US-09-949-016-16626	Sequence 16626, A	c 951	70.5	9.7	3211	2	US-08-574-959A-8	Sequence 8, Appli
c 879	71	9.7	36028	4	US-09-949-016-14190	Sequence 14190, A	c 952	70.5	9.7	3211	3	US-09-357-014-8	Sequence 8, Appli
c 880	71	9.7	36611	4	US-09-949-016-17287	Sequence 17287, A	c 953	70.5	9.7	3552	3	US-09-134-001C-693	Sequence 693, App
c 881	71	9.7	41927	4	US-09-902-540-1268	Sequence 1268, Ap	c 954	70.5	9.7	3901	2	US-08-574-959A-6	Sequence 6, Appli
c 882	71	9.7	55703	4	US-09-949-016-12007	Sequence 12007, A	c 955	70.5	9.7	3901	3	US-09-357-014-6	Sequence 6, Appli
883	71	9.7	55703	4	US-09-949-016-16781	Sequence 16781, A	c 956	70.5	9.7	4180	4	US-09-990-613A-4	Sequence 4, Appli
c 884	71	9.7	59977	4	US-09-949-016-12529	Sequence 12529, A	957	70.5	9.7	4257	2	US-08-690-473-1	Sequence 1, Appli
885	71	9.7	59978	4	US-09-949-016-15397	Sequence 15397, A	958	70.5	9.7	4257	3	US-09-259-821A-1	Sequence 1, Appli
886	71	9.7	65042	3	US-09-784-316-3	Sequence 3, Appli	959	70.5	9.7	4257	3	US-08-843-659-1	Sequence 1, Appli
887	71	9.7	65042	4	US-10-229-124-3	Sequence 3, Appli	960	70.5	9.7	4257	4	US-09-825-288A-1	Sequence 1, Appli
c 888	71	9.7	72928	3	US-09-009-913-1	Sequence 1, Appli	c 961	70.5	9.7	5992	4	US-09-949-016-546	Sequence 546, App

1108	70	9.6	34312	4	US-09-949-016-12352	Sequence 12352, A	1181	69.5	9.5	2062	1	US-08-050-319B-24	Sequence 24, Appl
1109	70	9.6	37861	4	US-09-949-016-16872	Sequence 16872, A	1182	69.5	9.5	2062	2	US-08-465-982-24	Sequence 24, Appl
1110	70	9.6	44377	2	US-08-804-227C-7	Sequence 7, Appl	1183	69.5	9.5	2087	4	US-09-023-655-1330	Sequence 1330, Ap
1111	70	9.6	44377	2	US-08-804-198-1	Sequence 1, Appl	1184	69.5	9.5	2112	3	US-09-023-655-1331	Sequence 1331, Ap
1112	70	9.6	49136	3	US-09-422-869-1	Sequence 1, Appl	1185	69.5	9.5	2161	3	US-09-106-038A-1	Sequence 1, Appl
1113	70	9.6	53394	4	US-09-949-016-15817	Sequence 15817, A	1186	69.5	9.5	2161	3	US-09-505-250-3	Sequence 1, Appl
1114	70	9.6	53394	4	US-09-949-016-15818	Sequence 15818, A	1187	69.5	9.5	2175	1	US-08-321-668-1	Sequence 1, Appl
1115	70	9.6	53394	4	US-09-949-016-15819	Sequence 15819, A	1188	69.5	9.5	2175	1	US-08-837-941-1	Sequence 1, Appl
1116	70	9.6	53394	4	US-09-949-016-15820	Sequence 15820, A	1189	69.5	9.5	2175	1	US-08-126-016-1	Sequence 1, Appl
1117	70	9.6	53526	3	US-08-658-136-2	Sequence 2, Appl	1190	69.5	9.5	2175	3	US-08-054-970-1	Sequence 1, Appl
1118	70	9.6	53577	3	US-08-658-136-1	Sequence 1, Appl	1191	69.5	9.5	2184	4	US-09-949-016-2075	Sequence 2075, Ap
1119	70	9.6	54484	4	US-09-902-540-1272	Sequence 1272, Ap	1192	69.5	9.5	2224	4	US-09-620-312D-579	Sequence 579, App
1120	70	9.6	54711	4	US-09-949-016-17489	Sequence 17489, A	1193	69.5	9.5	2269	3	US-09-394-645-1	Sequence 1, Appl
1121	70	9.6	60465	4	US-09-949-016-15995	Sequence 15995, A	1194	69.5	9.5	2269	3	US-09-243-560B-1	Sequence 1, Appl
1122	70	9.6	60572	4	US-09-949-016-12702	Sequence 12702, A	1195	69.5	9.5	2439	3	US-08-969-317-1	Sequence 1, Appl
1123	70	9.6	60589	4	US-09-949-016-17070	Sequence 17070, A	1196	69.5	9.5	2448	4	US-09-620-312D-64	Sequence 64, Appl
1124	70	9.6	60592	4	US-09-949-016-13741	Sequence 13741, A	1197	69.5	9.5	2607	4	US-09-774-528-187	Sequence 187, App
1125	70	9.6	61399	4	US-09-949-016-14386	Sequence 14386, A	1198	69.5	9.5	2688	3	US-08-458-434A-3	Sequence 3, Appl
1126	70	9.6	67386	4	US-09-949-016-16519	Sequence 16519, A	1199	69.5	9.5	2874	4	US-09-620-312D-10	Sequence 10, Appl
1127	70	9.6	69263	4	US-09-949-016-12594	Sequence 12594, A	1200	69.5	9.5	3045	4	US-09-620-312D-9	Sequence 9, Appl
1128	70	9.6	69709	4	US-09-949-016-16036	Sequence 16036, A	1201	69.5	9.5	3059	4	US-09-502-540-540	Sequence 540, App
1129	70	9.6	88245	4	US-09-949-016-13835	Sequence 13835, A	1202	69.5	9.5	3069	4	US-09-620-312D-11	Sequence 11, Appl
1130	70	9.6	119762	4	US-09-949-016-17313	Sequence 17313, A	1203	69.5	9.5	3160	3	US-08-791-115B-2	Sequence 2, Appl
1131	70	9.6	129778	4	US-09-949-016-12191	Sequence 12191, A	1204	69.5	9.5	3160	4	US-09-140-749-1	Sequence 1, Appl
1132	70	9.6	129778	4	US-09-949-016-17075	Sequence 17075, A	1205	69.5	9.5	3660	4	US-09-614-221A-319	Sequence 319, App
1133	70	9.6	171700	4	US-09-949-016-12276	Sequence 12276, A	1206	69.5	9.5	3808	2	US-08-916-917-3	Sequence 3, Appl
1134	70	9.6	171701	4	US-09-949-016-15835	Sequence 15835, A	1207	69.5	9.5	3808	2	US-08-972-631-3	Sequence 3, Appl
1135	70	9.6	231129	4	US-09-949-016-16110	Sequence 16110, A	1208	69.5	9.5	3808	2	US-08-972-629-3	Sequence 3, Appl
1136	70	9.6	266293	4	US-09-949-016-11934	Sequence 11934, A	1209	69.5	9.5	3808	2	US-08-972-630-3	Sequence 3, Appl
1137	69.5	9.5	357	4	US-09-902-540-3044	Sequence 1044, Ap	1210	69.5	9.5	3808	2	US-08-572-211-3	Sequence 3, Appl
1138	69.5	9.5	601	4	US-09-949-016-18457	Sequence 18457, A	1211	69.5	9.5	3808	3	US-09-225-170-3	Sequence 3, Appl
1139	69.5	9.5	601	4	US-09-949-016-38408	Sequence 38408, A	1212	69.5	9.5	4465	4	US-09-799-451-142	Sequence 142, App
1140	69.5	9.5	601	4	US-09-949-016-65973	Sequence 65973, A	1213	69.5	9.5	5394	3	US-08-688-376-1	Sequence 1, Appl
1141	69.5	9.5	601	4	US-09-949-016-163209	Sequence 163209, A	1214	69.5	9.5	5434	2	US-08-841-349-1	Sequence 1, Appl
1142	69.5	9.5	601	4	US-09-949-016-176512	Sequence 176512, A	1215	69.5	9.5	5434	4	US-09-431-184A-1	Sequence 1, Appl
1143	69.5	9.5	601	4	US-09-949-016-186296	Sequence 186296, A	1216	69.5	9.5	5895	4	US-09-502-540-792	Sequence 792, App
1144	69.5	9.5	601	4	US-09-949-016-193827	Sequence 193827, A	1217	69.5	9.5	6047	4	US-09-902-540-758	Sequence 758, App
1145	69.5	9.5	601	4	US-09-949-016-193854	Sequence 193854, A	1218	69.5	9.5	6585	4	US-09-949-016-14770	Sequence 14770, A
1146	69.5	9.5	601	4	US-09-949-016-203340	Sequence 203340, A	1219	69.5	9.5	7901	4	US-09-949-016-11979	Sequence 11979, A
1147	69.5	9.5	735	3	US-09-105-058C-7	Sequence 7, Appl	1220	69.5	9.5	7960	3	US-09-949-016-14930	Sequence 14930, A
1148	69.5	9.5	847	3	US-09-360-283-1	Sequence 1, Appl	1221	69.5	9.5	9239	3	US-08-458-434A-7	Sequence 7, Appl
1149	69.5	9.5	1043	3	US-09-454-077A-5	Sequence 5, Appl	1222	69.5	9.5	9991	4	US-09-502-540-1014	Sequence 1014, Ap
1150	69.5	9.5	1101	4	US-09-248-796A-2956	Sequence 2956, Ap	1223	69.5	9.5	10236	4	US-09-949-016-12492	Sequence 12492, A
1151	69.5	9.5	1110	4	US-09-902-540-4933	Sequence 4933, Ap	1224	69.5	9.5	10237	4	US-09-949-016-13959	Sequence 13959, A
1152	69.5	9.5	1131	3	US-09-902-540-6735	Sequence 6735, Ap	1225	69.5	9.5	10701	4	US-09-949-016-14375	Sequence 14375, A
1153	69.5	9.5	1257	3	US-08-791-115B-8	Sequence 8, Appl	1226	69.5	9.5	11922	4	US-09-902-540-1063	Sequence 1063, Ap
1154	69.5	9.5	1257	4	US-09-140-749-19	Sequence 19, Appl	1227	69.5	9.5	11958	3	US-09-134-246-8	Sequence 8, Appl
1155	69.5	9.5	1410	4	US-09-506-859-14	Sequence 14, Appl	1228	69.5	9.5	11958	4	US-09-664-186-8	Sequence 8, Appl
1156	69.5	9.5	1410	5	FCT-US95-1542B-14	Sequence 14, Appl	1229	69.5	9.5	12305	4	US-09-949-016-13096	Sequence 13096, A
1157	69.5	9.5	1425	3	US-09-902-540-3333	Sequence 3333, Ap	1230	69.5	9.5	13434	4	US-09-502-540-1003	Sequence 1003, Ap
1158	69.5	9.5	1499	3	US-09-300-672-3	Sequence 3, Appl	1231	69.5	9.5	13751	4	US-09-902-540-1099	Sequence 1099, Ap
1159	69.5	9.5	1596	4	US-09-902-540-2351	Sequence 2351, Ap	1232	69.5	9.5	14027	4	US-09-902-540-1023	Sequence 1023, Ap
1160	69.5	9.5	1667	4	US-09-023-655-434	Sequence 434, App	1233	69.5	9.5	14721	4	US-09-949-016-13507	Sequence 13507, A
1161	69.5	9.5	1731	4	US-09-902-540-1920	Sequence 1920, Ap	1234	69.5	9.5	15268	4	US-09-902-540-1142	Sequence 1142, Ap
1162	69.5	9.5	1749	3	US-09-799-451-806	Sequence 806, App	1235	69.5	9.5	16387	4	US-09-902-540-1156	Sequence 1156, Ap
1163	69.5	9.5	1796	3	US-09-255-392-1	Sequence 1, Appl	1236	69.5	9.5	17050	4	US-09-949-016-12784	Sequence 12784, A
1164	69.5	9.5	1817	3	US-08-564-496C-14	Sequence 14, Appl	1237	69.5	9.5	17050	4	US-09-949-016-13680	Sequence 13680, A
1165	69.5	9.5	1889	2	US-08-946-241B-1	Sequence 1, Appl	1238	69.5	9.5	17098	4	US-09-949-016-13119	Sequence 13119, A
1166	69.5	9.5	1889	2	US-08-946-241B-8	Sequence 8, Appl	1239	69.5	9.5	28136	4	US-09-949-016-16317	Sequence 16317, A
1167	69.5	9.5	1889	3	US-09-309-053-1	Sequence 8, Appl	1240	69.5	9.5	28802	4	US-09-949-016-14124	Sequence 14124, A
1168	69.5	9.5	1889	3	US-09-309-053-8	Sequence 8, Appl	1241	69.5	9.5	30780	4	US-09-902-540-1243	Sequence 1243, Ap
1169	69.5	9.5	1982	4	US-09-270-767-10487	Sequence 10487, A	1242	69.5	9.5	30868	4	US-09-949-016-13279	Sequence 13279, A
1170	69.5	9.5	2005	2	US-08-484-200-1	Sequence 1, Appl	1243	69.5	9.5	40512	4	US-09-949-016-16612	Sequence 16612, A
1171	69.5	9.5	2005	2	US-08-477-493-1	Sequence 1, Appl	1244	69.5	9.5	41895	4	US-09-949-016-15135	Sequence 15135, A
1172	69.5	9.5	2005	3	US-08-465-375-1	Sequence 1, Appl	1245	69.5	9.5	42610	4	US-09-949-016-13982	Sequence 13982, A
1173	69.5	9.5	2005	3	US-09-788-070-1	Sequence 1, Appl	1246	69.5	9.5	42672	4	US-09-949-016-17253	Sequence 17253, A
1174	69.5	9.5	2005	4	US-10-142-372-1	Sequence 1, Appl	1247	69.5	9.5	42672	4	US-09-949-016-17254	Sequence 17254, A
1175	69.5	9.5	2005	4	US-09-155-252A-1	Sequence 1, Appl	1248	69.5	9.5	43537	4	US-09-949-016-13458	Sequence 13458, A
1176	69.5	9.5	2050	4	US-09-891-053-21	Sequence 21, Appl	1249	69.5	9.5	43992	4	US-09-949-016-12172	Sequence 12172, A
1177	69.5	9.5	2058	1	US-08-153-848-6	Sequence 6, Appl	1250	69.5	9.5	43993	4	US-09-949-016-13406	Sequence 13406, A
1178	69.5	9.5	2058	3	US-09-399-843A-6	Sequence 6, Appl	1251	69.5	9.5	49401	4	US-09-949-016-17080	Sequence 17080, A
1179	69.5	9.5	2058	3	US-09-088-337B-6	Sequence 6, Appl	1252	69.5	9.5	49472	4	US-09-949-016-17478	Sequence 17478, A
1180	69.5	9.5	2058	5	FCT-US93-11153-6	Sequence 6, Appl	1253	69.5	9.5	50878	4	US-09-949-016-11787	Sequence 11787, A

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c1255	69.5	57560	4	US-09-949-016-12536	Sequence 12536, A	c1328	69	9.5	1979	4	US-09-023-655-597	Sequence 597, App
1256	69.5	62776	4	US-09-949-016-17576	Sequence 17576, A	1329	69	9.5	2325	1	US-08-314-309A-20	Sequence 20, Appl
c1257	69.5	70947	4	US-09-949-016-15165	Sequence 15165, A	c1330	69	9.5	2377	3	US-09-149-476-264	Sequence 264, App
c1258	69.5	78157	4	US-09-949-016-16466	Sequence 16466, A	c1331	69	9.5	2379	4	US-09-902-540-5434	Sequence 5434, Ap
c1259	69.5	78157	4	US-09-949-016-16467	Sequence 16467, A	c1332	69	9.5	2586	4	US-09-902-540-5619	Sequence 5619, Ap
1260	69.5	86414	4	US-09-949-016-12345	Sequence 12345, A	1333	69	9.5	2595	4	US-09-810-268-2	Sequence 2, Appli
c1261	69.5	86414	4	US-09-949-016-13694	Sequence 13694, A	c1334	69	9.5	2652	1	US-08-416-581B-8	Sequence 7, Appli
c1262	69.5	91831	4	US-09-949-016-11929	Sequence 11929, A	c1335	69	9.5	2652	1	US-08-416-581B-8	Sequence 8, Appli
c1263	69.5	92227	4	US-09-949-016-15421	Sequence 15421, A	c1336	69	9.5	2750	2	US-08-136-277-1	Sequence 1, Appli
1264	69.5	92232	4	US-09-949-016-13553	Sequence 13553, A	c1337	69	9.5	2750	2	US-08-479-403-1	Sequence 1, Appli
c1265	69.5	103792	4	US-09-949-016-12317	Sequence 12317, A	c1338	69	9.5	2750	3	US-08-835-734-1	Sequence 1045, Ap
c1266	69.5	103993	4	US-09-949-016-12317	Sequence 12317, A	1339	69	9.5	2900	4	US-09-620-312D-1045	Sequence 373, App
c1267	69.5	107941	4	US-09-949-016-14206	Sequence 14206, A	c1340	69	9.5	2980	4	US-09-799-451-373	Sequence 1, Appli
c1268	69.5	109378	4	US-09-949-016-12391	Sequence 12391, A	c1341	69	9.5	3007	4	US-09-810-268-1	Sequence 4107, Ap
c1269	69.5	114139	4	US-09-949-016-16536	Sequence 16536, A	1342	69	9.5	3378	4	US-09-328-352-4107	Sequence 1, Appli
c1270	69.5	116652	4	US-09-949-016-13413	Sequence 13413, A	c1343	69	9.5	3857	1	US-08-118-101A-1	Sequence 1, Appli
c1271	69.5	148567	4	US-09-801-876B-3	Sequence 3, Appli	c1344	69	9.5	3857	1	US-09-976-594-915	Sequence 915, App
c1272	69.5	148567	4	US-10-254-869-3	Sequence 3, Appli	1345	69	9.5	4030	3	US-09-293-505-1	Sequence 1, Appli
c1273	69.5	148567	4	US-10-667-442-3	Sequence 3, Appli	c1346	69	9.5	4391	3	US-09-060-939A-1	Sequence 1, Appli
c1274	69.5	158735	4	US-09-949-016-11989	Sequence 11989, A	1347	69	9.5	4391	3	US-09-207-857-1	Sequence 1, Appli
c1275	69.5	158735	4	US-09-949-016-17130	Sequence 17130, A	c1348	69	9.5	4391	3	US-09-909-280A-1	Sequence 266, App
c1276	69.5	158735	4	US-09-949-016-13032	Sequence 13032, A	1349	69	9.5	4549	4	US-09-620-312D-266	Sequence 5404, Ap
1277	69.5	158735	4	US-09-949-016-15584	Sequence 15584, A	c1350	69	9.5	4608	4	US-09-949-016-5404	Sequence 1005, Ap
c1278	69.5	158735	4	US-09-949-016-17037	Sequence 17037, A	1351	69	9.5	4617	4	US-09-949-016-1005	Sequence 9346, Ap
c1279	69.5	260286	4	US-09-949-016-12106	Sequence 12106, A	c1352	69	9.5	4683	3	US-09-902-540-9346	Sequence 36, Appl
1280	69.5	300598	4	US-09-949-016-11868	Sequence 11868, A	1353	69	9.5	5703	3	US-09-280-590A-36	Sequence 36, Appl
c1281	69.5	302604	4	US-09-949-016-14589	Sequence 14589, A	c1354	69	9.5	5703	4	US-09-892-398-36	Sequence 2012, Ap
c1282	69.5	302604	4	US-09-949-016-17119	Sequence 17119, A	1355	69	9.5	5967	4	US-09-902-540-2012	Sequence 22, Appl
1283	69.5	308362	4	US-09-949-016-14957	Sequence 14957, A	c1356	69	9.5	7808	2	US-08-149-097D-22	Sequence 22, Appl
c1284	69.5	325034	4	US-09-949-016-14157	Sequence 14157, A	1357	69	9.5	7808	3	US-08-949-386-22	Sequence 22, Appl
c1285	69.5	455726	4	US-09-949-016-11940	Sequence 11940, A	1358	69	9.5	7808	3	US-08-450-582-22	Sequence 22, Appl
1286	69.5	481115	4	US-09-949-016-11940	Sequence 11940, A	1359	69	9.5	7808	3	US-08-984-709A-22	Sequence 22, Appl
c1287	69	458	4	US-09-513-999C-1912	Sequence 1912, Ap	1360	69	9.5	7808	3	US-08-450-272-22	Sequence 22, Appl
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c1289	69	601	4	US-09-949-016-34295	Sequence 34295, A	1362	69	9.5	8578	4	US-09-902-540-871	Sequence 871, App
1290	69	601	4	US-09-949-016-50885	Sequence 50885, A	1363	69	9.5	8578	4	US-09-961-527-98	Sequence 98, Appl
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1292	69	601	4	US-09-949-016-50886	Sequence 50886, A	c1365	69	9.5	9008	4	US-09-949-016-14036	Sequence 14036, A
c1293	69	601	4	US-09-949-016-79732	Sequence 79732, A	c1366	69	9.5	9009	4	US-09-949-016-14036	Sequence 93, Appl
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c1295	69	666	4	US-09-949-016-3459	Sequence 3459, Ap	c1368	69	9.5	9551	2	US-08-800-644-93	Sequence 13026, A
c1296	69	684	4	US-09-902-540-8341	Sequence 8341, Ap	1369	69	9.5	9551	2	US-09-949-016-13026	Sequence 13026, A
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c1298	69	750	3	US-08-488-123-11	Sequence 11, Appl	1371	69	9.5	9905	4	US-09-902-540-998	Sequence 13215, A
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c1303	69	1001	4	US-09-671-317-253	Sequence 253, App	1376	69	9.5	13117	4	US-09-949-016-15804	Sequence 15804, A
c1304	69	1041	4	US-09-489-039A-6251	Sequence 6251, Ap	c1377	69	9.5	14462	4	US-09-902-540-1090	Sequence 1090, Ap
c1305	69	1052	4	US-09-489-039A-6251	Sequence 6251, Ap	1378	69	9.5	14462	4	US-09-902-540-9597	Sequence 9597, Ap
c1306	69	1065	4	US-09-489-039A-6251	Sequence 6251, Ap	c1379	69	9.5	14862	4	US-09-949-016-17401	Sequence 17401, A
1307	69	1146	3	US-08-596-684F-1	Sequence 1, Appli	1380	69	9.5	15131	4	US-09-949-016-16805	Sequence 16805, A
c1308	69	1146	3	US-09-949-016-4186	Sequence 4186, Ap	c1381	69	9.5	15131	4	US-09-949-016-16805	Sequence 16805, A
c1309	69	1173	4	US-09-902-540-5559	Sequence 5559, Ap	1382	69	9.5	15756	4	US-09-949-016-13538	Sequence 13538, A
c1310	69	1182	4	US-09-902-540-4218	Sequence 4218, Ap	c1383	69	9.5	15756	4	US-09-949-016-13538	Sequence 13538, A
1311	69	1189	4	US-10-379-010-7	Sequence 7, Appli	1384	69	9.5	15907	4	US-09-949-016-12331	Sequence 12331, A
c1312	69	1249	4	US-09-674-741-7	Sequence 7, Appli	c1385	69	9.5	16740	4	US-09-949-016-12331	Sequence 12331, A
1313	69	1281	4	US-09-252-991A-5766	Sequence 5766, Ap	1386	69	9.5	16740	4	US-09-949-016-12331	Sequence 12331, A
c1314	69	1317	4	US-09-902-540-9505	Sequence 9505, Ap	1387	69	9.5	18197	4	US-09-949-016-12597	Sequence 12597, A
1315	69	1329	4	US-09-252-991A-5804	Sequence 5804, Ap	c1388	69	9.5	18197	4	US-09-949-016-12597	Sequence 12597, A
c1316	69	1425	4	US-09-266-965-63	Sequence 63, Appl	1389	69	9.5	19222	4	US-09-902-540-1192	Sequence 1192, Ap
1317	69	1441	2	US-08-136-277-18	Sequence 18, Appl	c1390	69	9.5	23219	4	US-09-949-016-13556	Sequence 13556, A
c1318	69	1441	2	US-08-479-403-18	Sequence 18, Appl	1391	69	9.5	26289	4	US-09-902-540-1210	Sequence 1210, Ap
1319	69	1441	3	US-08-835-734-18	Sequence 18, Appl	c1392	69	9.5	29165	4	US-09-949-016-12340	Sequence 12340, A
c1320	69	1506	4	US-09-902-540-3895	Sequence 3895, Ap	1393	69	9.5	34094	4	US-09-292-034-1	Sequence 1, Appli
1321	69	1561	4	US-09-252-991A-6891	Sequence 6891, Ap	c1394	69	9.5	34953	4	US-09-902-540-1263	Sequence 1263, Ap
c1322	69	1618	3	US-09-126-109-7	Sequence 109, Ap	1395	69	9.5	37254	4	US-09-949-016-15973	Sequence 15973, A
1323	69	1641	3	US-09-235-153-4	Sequence 4, Appli	c1396	69	9.5	41170	4	US-09-902-540-1267	Sequence 1267, Ap
c1324	69	1857	3	US-09-252-991A-5847	Sequence 5847, Ap	1397	69	9.5	47787	4	US-09-949-016-11969	Sequence 11969, A
1325	69	1898	3	US-09-417-286-3	Sequence 3, Appli	c1398	69	9.5	49225	4	US-09-902-540-1269	Sequence 1269, Ap
1326	69	1935	4	US-09-495-050A-190	Sequence 190, App	1399	69	9.5	58543	4	US-09-949-016-13565	Sequence 13565, A
							69	9.5	62327	4	US-09-949-016-16809	Sequence 16809, A
							69	9.5	65966	4	US-09-949-016-17152	Sequence 17152, A

[illegible][illegible]


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Db      8959 CGGCCCTCCACCTC-----CTCAGCGCGAACCAGCT 8927
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-1112

Alignment Scores:
Pred. No.: 67.8      Length: 16833
Score: 90.50      Matches: 27
Percent Similarity: 45.12%      Conservative: 10
Best Local Similarity: 32.93%      Mismatches: 32
Query Match: 12.40%      Indels: 13
DB: 4      Gaps: 3

US-09-989-732-270 (1-142) x US-09-902-540-1112 (1-16833)
QY 57 ArgSerProGlnGlyTrpValValArgAlaAlaHisLeuThrProLeuLeuGluTyrVal 76
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 10181 CGGCTCTCTCCAGCGTGGCGGTGGGAACAGCTCGGGTCCGCTG----- 10134
QY 77 ProAsnProGluProProThrProGlyAlaArgValPheValProArgValArgMetCys 96
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 10133 -----CGGCCGCGCGCGCGAGCTCGACAGGGTCCGTGCCGCGGGCATGC 10083
QY 97 SerGlySerAlaSerProArgSerGluIle-----MetAspLysLysGlyLysSerGln 114
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 10082 CGAGCGAGCTCAAGTCTCTCTCGCCAGTCTCTCCGCCGCGGGAAGTCCGCATCAGCC 10023
QY 115 GluGluIleLysSerMetArgThrGlnGlnAlaGlnGlnGluAlaGluLeuThrProArg 134
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 10022 GGGCGTCTCCGTCGATCGACACCGCGCGGCTCGCAT-----ACGCCGCGA 9975
QY 135 ProAla 136
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 9974 CCAGCC 9969

RESULT 6
US-09-902-540-1182
; Sequence 1182, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 1182
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1).(17897)
; OTHER INFORMATION: unsure at all n locations
US-09-902-540-1182

Alignment Scores:
Pred. No.: 84.7      Length: 17897
Score: 90.00      Matches: 39
Percent Similarity: 37.19%      Conservative: 6
Best Local Similarity: 32.23%      Mismatches: 36
Query Match: 12.33%      Indels: 40
DB: 4      Gaps: 6

US-09-989-732-270 (1-142) x US-09-902-540-1182 (1-17897)
QY 53 ThrLeuSerProArgSerProGlnGlyTrpValValArgAlaAlaHis----- 68
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 16230 ACCGCTCGCCAAAGTCTCT-----CGCCGAGCGGCGGCGAGCTGTGCTCC 16274
```

```
Db      8959 CGGCCCTCCACCTC-----CTCAGCGCGAACCAGCT 8927
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-1112

Alignment Scores:
Pred. No.: 67.8      Length: 16833
Score: 90.50      Matches: 27
Percent Similarity: 45.12%      Conservative: 10
Best Local Similarity: 32.93%      Mismatches: 32
Query Match: 12.40%      Indels: 13
DB: 4      Gaps: 3

US-09-989-732-270 (1-142) x US-09-902-540-1112 (1-16833)
QY 57 ArgSerProGlnGlyTrpValValArgAlaAlaHisLeuThrProLeuLeuGluTyrVal 76
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 10181 CGGCTCTCTCCAGCGTGGCGGTGGGAACAGCTCGGGTCCGCTG----- 10134
QY 77 ProAsnProGluProProThrProGlyAlaArgValPheValProArgValArgMetCys 96
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 10133 -----CGGCCGCGCGCGCGAGCTCGACAGGGTCCGTGCCGCGGGCATGC 10083
QY 97 SerGlySerAlaSerProArgSerGluIle-----MetAspLysLysGlyLysSerGln 114
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 10082 CGAGCGAGCTCAAGTCTCTCTCGCCAGTCTCTCCGCCGCGGGAAGTCCGCATCAGCC 10023
QY 115 GluGluIleLysSerMetArgThrGlnGlnAlaGlnGlnGluAlaGluLeuThrProArg 134
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 10022 GGGCGTCTCCGTCGATCGACACCGCGCGGCTCGCAT-----ACGCCGCGA 9975
QY 135 ProAla 136
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 9974 CCAGCC 9969

RESULT 6
US-09-902-540-1182
; Sequence 1182, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 1182
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1).(17897)
; OTHER INFORMATION: unsure at all n locations
US-09-902-540-1182

Alignment Scores:
Pred. No.: 84.7      Length: 17897
Score: 90.00      Matches: 39
Percent Similarity: 37.19%      Conservative: 6
Best Local Similarity: 32.23%      Mismatches: 36
Query Match: 12.33%      Indels: 40
DB: 4      Gaps: 6

US-09-989-732-270 (1-142) x US-09-902-540-1182 (1-17897)
QY 53 ThrLeuSerProArgSerProGlnGlyTrpValValArgAlaAlaHis----- 68
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 16230 ACCGCTCGCCAAAGTCTCT-----CGCCGAGCGGCGGCGAGCTGTGCTCC 16274
```


; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16153
; LENGTH: 24070
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-16153

Alignment Scores: 254 Length: 24070
Pred. No.: 87.50 Matches: 42
Score: 42.00% Conservative: 21
Percent Similarity: 28.00% Mismatches: 54
Best Local Similarity: 11.99% Indels: 33
Query Match: 4 Gaps: 8
DB:

US-09-989-732-270 (1-142) x US-09-949-016-16153 (1-24070)

QY 1 MetAsnThrTriLeuLeuPheLeu-----ProLeuPheProValGln 14
DB 10634 CTGTCCTTGGTGTGTTGGATGTGAGGCTCTGTGGCTGCGCCCTCGTCCCTGTC 10693
QY 15 ValGlnThrLeuLeuValValIleGlyMetLeuValLeuLeuLeuAapPheLeuGly 34
DB 10694 CAGCAGCGCTGCTCTCCCGCTCTCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCT 10753
QY 35 LeuValHisLeuGlyGlnLeuLeuPheHisIleTyrlLeuSerMetSerPro----- 52
DB 10754 CACCCCATCTC-----TGCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 10807
QY 53 -----ThrLeuSerProArgSerProGln-----GlyTrpValValArg 65
DB 10808 TCTGTCTCTGTGACCCCGCTCCAGCCAGCCTGTTTCACATTCAGATGGCTGCAAGG 10867
QY 66 AlaAlaHisLeuThrProLeuLeuGluTyrlValProAsnProGlu----- 80
DB 10868 TACTTCGCGCCCTCTCCCGCTCTCCCGCCAGCCAGGAGCCAGCCAGCCAGGAGCTCT 10927
QY 81 -----ProProThrProGlyAla-----ArgValPheValPro 91
DB 10928 TCCTGCGCCATCCCATCACACCCCGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 10987
QY 92 ---ArgValArgMetCysSerGlySerAlaSerProArgSerGluLeuMetAspLysLys 110
DB 10988 TGGGCATTGGGGCTCTGCGCCACCTCACCCCTCTGACAGGGCTCACTGTGTG---ACTTTG 11044
QY 111 GlyValSerGlnGluGluIleLysSerMet 120
DB 11045 GGCAAGTCCAGCCCGCTCTGCGCTCAGTT 11074

RESULT 10
US-09-949-016-16153
; Sequence 16153, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16515
; LENGTH: 163022
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(163022)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-16515

Alignment Scores: 5.07e+03 Length: 163022
Pred. No.: 87.00 Matches: 39
Score: 41.46% Conservative: 12
Percent Similarity: 31.71% Mismatches: 58
Best Local Similarity: 11.92% Indels: 14
Query Match: 4 Gaps: 4
DB:

US-09-989-732-270 (1-142) x US-09-949-016-16515 (1-163022)

QY 1 MetAsnThrTriLeuLeuPheLeuProValGlnValGlnThrLeuLeuVal 20
DB 12888 CTGAACGGTGGGCTGTCTTTTCCCTGCTCTGGATAGTACAATATTGAACAGCACTGT 128947
QY 21 ValIleIleGlyMetLeuValLeuLeuLeuAapPhe----- 32
DB 128948 AAAGAGGTAGGACTGAGAGGTGGTTTCCATGTTTAAATAATGATCAGGAGGCTACTAC 129007
QY 33 LeuGlyLeuValHisLeuGlyGlnLeuLeuPheHisIleTyrlLeuSerMetSerPro 52
DB 129008 TTTAAAGAGGTAAACATACACAAATTTTATATATTTTATTTTGTGACAGGGTCTT 129067
QY 53 ThrLeuSerProArgSerProGlnGlyTrpValValArgAlaAlaHisLeuThrProLeu 72
DB 129068 GCTCTGTCTCCAGGCTGGAGTACAGTGTGTGATCAGGCTCAGCTGCAGCCTCCCCCTC 129127
QY 73 LeuGluTyrlValProAsnPro---GluProThrProGlyAlaArgValPheValPro 91
DB 129128 -----CCGGGCCCAAGTGATCTCCACCTCAGCTTCCAGGAGTGGGACC 129175
QY 92 ArgValArgMetCysSerGlySerAlaSerProArgSerGluLeuMetAspLysGly 111
DB 129176 ACAGTC---ATGTGCCCAACATTCAGTAAATGTAAGAAATATTTTTTAAAGACGGG 129232
QY 112 LysSerGln 114
DB 129233 GTCTCCAA 129241

RESULT 11
US-09-902-540-7929
; Sequence 7929, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 7929
; LENGTH: 1464
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-7929

Alignment Scores:

Pred. No.:	5.03	Length:	1464
Score:	86.50	Matches:	41
Percent Similarity:	34.38%	Conservative:	14
Best Local Similarity:	25.62%	Mismatches:	51
Query Match:	11.85%	Indels:	54
DB:	4	Gaps:	7

US-09-989-732-270 (1-142) x US-09-902-540-7929 (1-1464)

QY	4	TpLeuLeuPheLeuProLeuPheProValGlnValGlnThrLeuLeuValVallelle	23
DB	484	TGGGTCTTCTCATCAAC-----GTCCCGGTGGCGG	516
QY	24	GlyMetLeuValLeuLeuLeuPheLeuGlyLeuValHisLeuGlyGlnLeuLeulle	43
DB	517	GGCTGCTCGTCTCTCTCATCAAC-----	543
QY	44	PheHisIleTyrLeu-SerMetSerPro-----ThrLeuSerProArg---Se	58
DB	544	TTCATGAGCGCGTGGAGCGGAAGCCAGAGCTGACTACCGGGCGCGGCTGCTC	603
QY	58	rProGlnGlyTrp-----ValValArgAl	66
DB	604	ACCGGTGGTGGTGGCGCTGCTCGCGGCTGCAAGGTGTGGCGTGAATCTGTGGGC	663
QY	66	aAlaHisLeuThrProLeuLeuGluTyrVal-----ProAs	78
DB	664	TTCGCGTGGCGCGCTGCTCGCGGCTTCTCGCGTGGAGCGCAAGTGGCGCGAG	723
QY	78	nProGluProProThrProGlyAlaArgValPheValProArgValArgMetCysSerG	98
DB	724	CCCATCATCCCATGCTCATCTTCAAGG-----TGCCGGCC	759
QY	98	ySerAlaSerProArgSerGluLeuMetAspLysLysGlyLysSerGlnGluLeuley	118
DB	760	ATCGTATCTCTCCATCGCGGCGCTCTTCTCGCGCGGATGTTGGGGCCACCACC	819
QY	118	sSerMetArgThrGlnGlnAlaGlnGlnGluLeuThrProArgProAlaGly	137
DB	820	TACGTTCCGCTCTTCGTCACGGCGTCTCGGGCGGAACGCCCCAGGCGCGGGA	877

RESULT 12

US-09-902-540-800

; Sequence 800, Application US/09902540

; Patent No. 6833447

; GENERAL INFORMATION:

; APPLICANT: Goldman, Barry S.

; APPLICANT: Hinkle, Gregory J.

; APPLICANT: Slater, Steven C.

; APPLICANT: Wiegand, Roger C.

; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof

; FILE REFERENCE: 38-10(15849)B

; CURRENT APPLICATION NUMBER: US/09/902,540

; CURRENT FILING DATE: 2001-07-10

; PRIOR APPLICATION NUMBER: 60/217,883

; PRIOR FILING DATE: 2000-07-10

; NUMBER OF SEQ ID NOS: 16825

; SEQ ID NO 800

; LENGTH: 6037

; TYPE: DNA

; ORGANISM: Myxococcus xanthus

; FEATURE:

; NAME/KEY: unsure

; LOCATION: (1)..(6037)

; OTHER INFORMATION: unsure at all n locations

US-09-902-540-800

Alignment Scores:

Pred. No.:

Score:

Percent Similarity:

Best Local Similarity:

Query Match:

41.8

86.50

34.38%

25.62%

11.85%

6037

41

14

51

54

US-09-989-732-270 (1-142) x US-09-902-540-800 (1-6037)

QY	4	TpLeuLeuPheLeuProLeuPheProValGlnValGlnThrLeuLeuValVallelle	23
DB	3226	TGGGTCTTCTCATCAAC-----GTCCCGGTGGCGG	3258
QY	24	GlyMetLeuValLeuLeuPheLeuGlyLeuValHisLeuGlyGlnLeuLeulle	43
DB	3259	GGTGGCTTCGTCCTCTCATCAAC-----	3285
QY	44	PheHisIleTyrLeu-SerMetSerPro-----ThrLeuSerProArg---Se	58
DB	3286	TTCATGAGCGCGTGGAGCGGAAGCCAGAGCTGACTACCGGGCGCGGCTGCTC	3345
QY	58	rProGlnGlyTrp-----ValValArgAl	66
DB	3346	ACCGGTGGTGGTGGCGCTGCTCGCGGCTGCAAGGTGTGGCGTGAATCTGTGGGC	3405
QY	66	aAlaHisLeuThrProLeuLeuGluTyrVal-----ProAs	78
DB	3406	TTCGCGTGGCGCGCTGCTCGCGGCTTCTCGCGTGGAGCGCAAGTGGCGCGAG	3465
QY	78	nProGluProProThrProGlyAlaArgValPheValProArgValArgMetCysSerG	98
DB	3466	CCCATCATCCCATGCTCATCTTCAAGG-----TGCCGGCC	3501
QY	98	ySerAlaSerProArgSerGluLeuMetAspLysLysGlyLysSerGlnGluLeuley	118
DB	3502	ATCGTATCTCTCCATCGCGGCGCTCTTCTCGCGGCGGATGTTGGGGCCACCACC	3561
QY	118	sSerMetArgThrGlnGlnAlaGlnGlnGluLeuThrProArgProAlaGly	137
DB	3562	TACGTTCCGCTCTTCGTCACGGCGCTCTCGGGCGGAACGCCCCAGGCGCGGGA	3619

RESULT 13

US-10-162-012-3

; Sequence 3, Application US/10162012

; Patent No. 6682597

; GENERAL INFORMATION:

; APPLICANT: Curtis, Rory A.J.

; APPLICANT: Silos-Santiago, Immaculada

; APPLICANT: Gu, Wei

; TITLE OF INVENTION: NOVEL HUMAN ION CHANNEL AND TRANSPORTER FAMILY MEMBERS

; FILE REFERENCE: 10448-190001

; CURRENT APPLICATION NUMBER: US/10/162,012

; CURRENT FILING DATE: 2002-06-04

; PRIOR APPLICATION NUMBER: US 60/209,845

; PRIOR FILING DATE: 2000-06-06

; PRIOR APPLICATION NUMBER: US 09/875,321

; PRIOR FILING DATE: 2001-06-06

; PRIOR APPLICATION NUMBER: PCT/US01/18340

; PRIOR FILING DATE: 2001-06-06

; PRIOR APPLICATION NUMBER: US 60/209,257

; PRIOR FILING DATE: 2000-06-05

; PRIOR APPLICATION NUMBER: US 09/875,423

; PRIOR FILING DATE: 2001-06-05

; PRIOR APPLICATION NUMBER: PCT/US01/18398

; PRIOR FILING DATE: 2001-06-05

; PRIOR APPLICATION NUMBER: US 60/209,238

; PRIOR FILING DATE: 2000-06-05

; PRIOR APPLICATION NUMBER: US 09/875,363

; PRIOR FILING DATE: 2001-06-05

; PRIOR APPLICATION NUMBER: PCT/US01/18247

; PRIOR FILING DATE: 2001-06-05

; PRIOR APPLICATION NUMBER: US 60/227,068

; PRIOR FILING DATE: 2000-08-22

; PRIOR APPLICATION NUMBER: US 09/928,530

; PRIOR FILING DATE: 2001-08-13

; PRIOR APPLICATION NUMBER: PCT/US01/25475

; PRIOR FILING DATE: 2001-08-15

; PRIOR APPLICATION NUMBER: US 60/226,770

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; PRIOR FILING DATE: 2000-08-21
; PRIOR APPLICATION NUMBER: US 09/934,421
; PRIOR FILING DATE: 2001-08-21
; PRIOR APPLICATION NUMBER: PCT/US01/18398
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/209,238
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: US 09/875,363
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: PCT/US01/18247
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/227,068
; PRIOR FILING DATE: 2000-08-22
; PRIOR APPLICATION NUMBER: US 09/928,530
; PRIOR FILING DATE: 2001-08-13
; PRIOR APPLICATION NUMBER: PCT/US01/25475
; PRIOR FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: US 60/236,770
; PRIOR FILING DATE: 2000-08-21
; PRIOR APPLICATION NUMBER: US 09/934,421
; PRIOR FILING DATE: 2001-08-21
; PRIOR APPLICATION NUMBER: PCT/US01/26096
; PRIOR FILING DATE: 2001-08-21
; PRIOR APPLICATION NUMBER: US 60/279,281
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 10/109,029
; PRIOR FILING DATE: 2002-03-28
; PRIOR APPLICATION NUMBER: PCT/US02/09728
; PRIOR FILING DATE: 2002-03-28
; PRIOR APPLICATION NUMBER: US 60/290,288
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US (not assigned)
; PRIOR FILING DATE: 2002-05-13
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 2544
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-162-012-3

Alignment Scores:
Pred. No.: 13.1 Length: 2544
Score: 86.00 Matches: 29
Percent Similarity: 41.84% Conservative: 12
Best Local Similarity: 29.59% Mismatches: 38
Query Match: 11.78% Indels: 19
DB: 4 Gaps: 3

US-09-989-732-270 (1-142) x US-10-162-012-3 (1-2544)
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; Patent No. 6682597
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; APPLICANT: Silos-Santiago, Immaculada
; APPLICANT: Gu, Wei
; TITLE OF INVENTION: NOVEL HUMAN ION CHANNEL AND TRANSPORTER FAMILY MEMBERS
; FILE REFERENCE: 10448-130001
; CURRENT APPLICATION NUMBER: US/10/162,012
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/209,845
; PRIOR FILING DATE: 2000-06-06
; PRIOR APPLICATION NUMBER: US 09/875,321
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: PCT/US01/18340
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GenCore version 5.1.6
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OM protein - protein search, using sw model

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655	70.5	9.7	1119	16	US-09-984-198-151	Sequence 151, App	728	70	9.6	652	16	US-10-143-618-4	Sequence 4, Appl
656	70.5	9.7	1347	16	US-10-437-963-168634	Sequence 168634, A	729	70	9.6	652	16	US-10-143-618-4	Sequence 4, Appl
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757	68	9.3	206	16	US-10-424-599-279428	Sequence 279428, A	830	67.5	9.2	801	16	US-10-322-281-666	Sequence 666, App
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774	67.5	9.2	327	15	US-10-282-122A-48240	Sequence 48240, A	847	67	9.2	374	15	US-10-282-122A-59918	Sequence 5918, A
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784	67.5	9.2	451	15	US-10-341-434-180	Sequence 180, App	857	67	9.2	746	9	US-09-738-973-185	Sequence 185, App
785	67.5	9.2	453	14	US-10-280-047-5	Sequence 5, Appli	858	67	9.2	746	9	US-09-854-133-185	Sequence 185, App
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788	67.5	9.2	455	9	US-09-027-287-3	Sequence 3, Appli	861	67	9.2	792	14	US-10-309-422-38	Sequence 38, Appli
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886	67	9.2	1127	14	US-10-309-422-28	Sequence 28, Appl	959	66	9.0	324	15	US-10-225-066A-484	Sequence 484, App
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891	67	9.2	1552	15	US-10-369-493-19252	Sequence 19252, A	964	66	9.0	346	15	US-10-627-476-482	Sequence 482, App
892	67	9.2	1559	16	US-10-437-963-178871	Sequence 178871, App	965	66	9.0	363	14	US-10-074-045-45	Sequence 45, Appl
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904	67	9.2	1957	16	US-10-437-963-168682	Sequence 168682, App	977	66	9.0	601	15	US-10-104-047-3822	Sequence 3822, App
905	67	9.2	2035	16	US-10-437-963-168690	Sequence 168690, App	978	66	9.0	601	16	US-10-408-765A-1452	Sequence 1452, App
906	67	9.2	2037	16	US-10-437-963-168643	Sequence 168643, App	979	66	9.0	601	16	US-10-345-837-22	Sequence 22, Appl
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908	67	9.2	2036	16	US-10-437-963-168795	Sequence 168795, App	981	66	9.0	626	15	US-10-093-463-120	Sequence 120, App
909	67	9.2	2396	16	US-10-737-658-2	Sequence 2, Appli	982	66	9.0	647	9	US-09-965-529-16	Sequence 16, Appl
910	67	9.2	2385	16	US-10-407-822-8	Sequence 8, Appli	983	66	9.0	647	10	US-09-969-680A-16	Sequence 16, Appl
911	67	9.2	19723	15	US-10-407-822-8	Sequence 5, Appli	984	66	9.0	647	11	US-09-833-245-686	Sequence 686, App
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913	66.5	9.1	116	16	US-10-424-599-245511	Sequence 245511, App	986	66	9.0	647	15	US-10-353-690-76	Sequence 76, Appl
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915	66.5	9.1	151	16	US-10-437-963-195012	Sequence 195012, App	988	66	9.0	648	16	US-10-169-393-4	Sequence 4, Appli
916	66.5	9.1	162	16	US-10-437-963-140070	Sequence 140070, App	989	66	9.0	681	15	US-10-437-963-189835	Sequence 189835, App
917	66.5	9.1	170	15	US-10-437-963-143558	Sequence 143558, App	990	66	9.0	782	16	US-10-396-122-89	Sequence 89, Appl
918	66.5	9.1	195	15	US-10-187-975-54	Sequence 54, Appl	991	66	9.0	808	16	US-10-437-963-189667	Sequence 204716, App
919	66.5	9.1	252	9	US-10-424-599-200391	Sequence 200391, App	992	66	9.0	808	16	US-10-437-963-189667	Sequence 189667, App
920	66.5	9.1	287	15	US-09-811-284-153	Sequence 153, App	993	66	9.0	838	15	US-10-369-493-15715	Sequence 142662, App
921	66.5	9.1	302	9	US-09-764-864-1331	Sequence 1331, Ap	994	66	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
922	66.5	9.1	353	16	US-10-437-963-135174	Sequence 135174, App	995	66	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
923	66.5	9.1	374	15	US-10-282-122A-43780	Sequence 43780, A	996	66	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
924	66.5	9.1	375	16	US-10-437-963-115963	Sequence 115963, App	997	66	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
925	66.5	9.1	380	16	US-10-437-963-178572	Sequence 178572, App	998	66	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
926	66.5	9.1	506	10	US-09-948-783-140	Sequence 140, App	999	66	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
927	66.5	9.1	507	10	US-09-892-877-138	Sequence 138, App	1000	66	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
928	66.5	9.1	612	15	US-10-333-120A-1	Sequence 1, Appli	1001	66	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
929	66.5	9.1	639	16	US-10-408-765A-1054	Sequence 1054, Ap	1002	66	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
930	66.5	9.1	650	14	US-10-139-662-2	Sequence 2, Appli	1003	66	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
931	66.5	9.1	650	14	US-10-139-683-2	Sequence 2, Appli	1004	66	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
932	66.5	9.1	650	14	US-10-143-618-2	Sequence 2, Appli	1005	66	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
933	66.5	9.1	650	16	US-10-745-034-2	Sequence 2, Appli	1006	66	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
934	66.5	9.1	650	16	US-10-755-889-196	Sequence 196, App	1007	66	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
935	66.5	9.1	657	15	US-10-425-114-64717	Sequence 64717, A	1008	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
936	66.5	9.1	897	9	US-09-949-192-49	Sequence 49, Appl	1009	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
937	66.5	9.1	930	15	US-10-282-122A-66945	Sequence 66945, A	1010	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
938	66.5	9.1	943	16	US-10-437-963-135173	Sequence 135173, App	1011	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
939	66.5	9.1	950	16	US-10-437-963-175646	Sequence 175646, App	1012	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
940	66.5	9.1	1014	16	US-10-437-963-165006	Sequence 165006, App	1013	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
941	66.5	9.1	1025	16	US-10-437-963-135181	Sequence 135181, App	1014	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
942	66.5	9.1	1058	16	US-10-669-161-98	Sequence 98, Appl	1015	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
943	66.5	9.1	1070	9	US-09-735-367B-6	Sequence 6, Appli	1016	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
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945	66.5	9.1	1924	16	US-10-437-963-168647	Sequence 168647, App	1018	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
946	66.5	9.1	2005	9	US-09-735-367B-3	Sequence 3, Appli	1019	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
947	66.5	9.1	2063	9	US-09-735-367B-2	Sequence 2, Appli	1020	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
948	66.5	9.1	6620	15	US-10-080-334-290	Sequence 290, App	1021	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
949	66.5	9.1	6620	16	US-10-408-765A-2291	Sequence 2291, App	1022	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
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951	66	9.0	111	15	US-10-112-944-850	Sequence 850, App	1024	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
952	66	9.0	115	15	US-10-424-599-167567	Sequence 167567, App	1025	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
953	66	9.0	180	16	US-10-437-963-185888	Sequence 185888, App	1026	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
954	66	9.0	191	15	US-10-424-599-189539	Sequence 189539, App	1027	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
955	66	9.0	206	14	US-10-029-386-31978	Sequence 31978, A	1028	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App
956	66	9.0	215	15	US-10-335-977-9046	Sequence 9046, Ap	1029	65.5	9.0	838	15	US-10-437-963-142662	Sequence 142662, App

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1038	65.5	9.0	669	15	US-10-104-047-3273	Sequence 3273, Ap	1217	65	8.9	1202	14	US-10-102-524-1856	Sequence 1856, Ap
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1044	65.5	9.0	1243	14	US-10-196-935A-4	Sequence 4, Appli	1223	65	8.9	1352	15	US-10-190-115-12	Sequence 12, Appli
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1057	65	8.9	71	16	US-10-437-963-111606	Sequence 111606,	1236	64.5	8.8	210	16	US-10-437-963-162087	Sequence 162087,
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1064	65	8.9	287	17	US-10-474-776-404	Sequence 404, App	1243	64.5	8.8	244	10	US-09-955-999-68	Sequence 68, Appli
1065	65	8.9	287	17	US-10-472-928-4408	Sequence 4408, Ap	1244	64.5	8.8	264	14	US-10-156-761-14193	Sequence 14193, A
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1073	65	8.9	434	14	US-10-088-726-17	Sequence 17, Appli	1252	64.5	8.8	529	15	US-10-670-844-2	Sequence 2, Appli
1074	65	8.9	434	14	US-10-321-807-22	Sequence 22, Appli	1253	64.5	8.8	529	15	US-10-671-134-2	Sequence 2, Appli
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1076	65	8.9	434	15	US-10-334-360-4	Sequence 4, Appli	1255	64.5	8.8	529	15	US-10-672-638-2	Sequence 2, Appli
1077	65	8.9	434	16	US-10-321-807-22	Sequence 22, Appli	1256	64.5	8.8	529	15	US-10-673-127-2	Sequence 2, Appli
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1079	65	8.9	434	16	US-10-314-048A-22	Sequence 22, Appli	1258	64.5	8.8	529	16	US-10-673-119-2	Sequence 2, Appli
1080	65	8.9	434	16	US-10-897-815-22	Sequence 22, Appli	1259	64.5	8.8	529	16	US-10-671-207-2	Sequence 2, Appli
1081	65	8.9	454	15	US-10-282-122A-53857	Sequence 53857, A	1260	64.5	8.8	529	17	US-10-673-120-2	Sequence 2, Appli
1082	65	8.9	460	15	US-10-425-114-62647	Sequence 62647, A	1261	64.5	8.8	590	9	US-09-738-626-3983	Sequence 3983, Ap
1083	65	8.9	466	16	US-10-437-963-184899	Sequence 184899,	1262	64.5	8.8	616	15	US-10-104-047-2331	Sequence 2331, Ap
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1085	65	8.9	473	15	US-10-282-122A-61289	Sequence 61289, A	1264	64.5	8.8	643	15	US-10-424-599-190977	Sequence 190977,
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1087	65	8.9	513	10	US-09-782-974C-192	Sequence 192, App	1266	64.5	8.8	693	9	US-09-984-198-154	Sequence 154, App
1088	65	8.9	522	15	US-10-369-493-3421	Sequence 3421, Ap	1267	64.5	8.8	758	16	US-10-437-963-113207	Sequence 113207,
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1090	65	8.9	575	15	US-10-470-360-12	Sequence 12, Appli	1269	64.5	8.8	859	15	US-10-225-066A-108	Sequence 108, App
1091	65	8.9	598	15	US-10-334-143-13	Sequence 13, Appli	1270	64.5	8.8	859	15	US-10-374-780A-84	Sequence 84, Appli
1092	65	8.9	678	16	US-10-437-963-103877	Sequence 103877,	1271	64.5	8.8	859	15	US-10-412-699B-296	Sequence 296, App
1093	65	8.9	775	10	US-09-934-455-450	Sequence 450, App	1272	64.5	8.8	871	13	US-10-128-870-20	Sequence 20, Appli
1094	65	8.9	781	15	US-10-282-122A-56868	Sequence 56868, A	1273	64.5	8.8	871	14	US-10-131-685-20	Sequence 20, Appli
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1096	65	8.9	821	15	US-10-250-613-15	Sequence 15, Appli	1275	64.5	8.8	872	16	US-10-096-578-2	Sequence 2, Appli
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1099	65	8.9	1082	15	US-10-231-956A-174	Sequence 174, App	1278	64.5	8.8	915	14	US-10-109-529A-2	Sequence 2, Appli
1108	65	8.9	1092	14	US-10-237-535-96	Sequence 96, Appli	1279	64.5	8.8	915	14	US-10-225-567A-182	Sequence 182, App
1117	65	8.9	1092	14	US-10-239-196-96	Sequence 96, Appli	1280	64.5	8.8	915	14	US-10-331-289-12	Sequence 12, Appli
1208	65	8.9	1114	15	US-10-231-956A-172	Sequence 172, App	1281	64.5	8.8	915	14	US-10-159-339-7	Sequence 7, Appli

1282	64.5	8.8	915	16	US-10-722-357-26	Sequence 26, Appl	1355	64	8.8	550	13	US-10-023-529-47	Sequence 47, Appl
1283	64.5	8.8	930	14	US-10-096-578-96	Sequence 96, Appl	1356	64	8.8	550	13	US-10-023-523-47	Sequence 47, Appl
1284	64.5	8.8	958	16	US-10-408-765A-1768	Sequence 1768, Ap	1357	64	8.8	550	15	US-10-616-187-47	Sequence 47, Appl
1285	64.5	8.8	1018	16	US-10-655-042-4	Sequence 4, Appli	1358	64	8.8	550	15	US-10-671-242-47	Sequence 47, Appl
1286	64.5	8.8	1037	16	US-10-408-765A-2808	Sequence 2808, Ap	1359	64	8.8	585	16	US-10-408-765A-2071	Sequence 2071, Ap
1287	64.5	8.8	1248	16	US-10-437-963-110446	Sequence 110446,	1360	64	8.8	593	16	US-10-437-963-133881	Sequence 133881,
1288	64.5	8.8	1250	15	US-10-112-944-249	Sequence 249, App	1361	64	8.8	609	15	US-10-425-114-57071	Sequence 57071, A
1289	64.5	8.8	1347	15	US-10-295-027-106	Sequence 106, App	1362	64	8.8	609	15	US-10-231-956A-341	Sequence 341, App
1290	64.5	8.8	1347	15	US-10-295-027-891	Sequence 891, App	1363	64	8.8	609	15	US-10-267-502-364	Sequence 364, App
1291	64.5	8.8	1360	14	US-09-934-421A-2	Sequence 2, Appli	1364	64	8.8	612	16	US-10-437-963-106183	Sequence 106183,
1292	64.5	8.8	1360	14	US-10-162-012-34	Sequence 34, Appl	1365	64	8.8	612	16	US-09-933-853A-16	Sequence 16, Appl
1293	64.5	8.8	1360	15	US-10-162-102-34	Sequence 34, Appl	1366	64	8.8	615	14	US-10-087-887-75	Sequence 75, Appl
1294	64.5	8.8	1382	14	US-10-087-782A-31	Sequence 31, Appl	1367	64	8.8	615	14	US-10-408-765A-913	Sequence 913, App
1295	64.5	8.8	1382	14	US-10-295-027-104	Sequence 104, App	1368	64	8.8	624	15	US-10-425-114-71490	Sequence 71490, A
1296	64.5	8.8	1382	15	US-10-058-270A-48	Sequence 48, Appl	1369	64	8.8	627	16	US-10-437-963-170414	Sequence 170414,
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581	48.6	3.6	160	16	US-10-029-386-24399
582	48.6	3.6	435	18	US-10-437-963-39246
583	48.6	3.6	477	18	US-10-425-115-107934
584	48.6	3.6	978	17	US-10-424-599-57198
585	48.6	3.6	3655	18	US-10-723-860-5395
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589	48.4	3.6	732	10	US-09-882-171-66
590	48.4	3.6	732	17	US-10-164-861-66
591	48.4	3.6	1013	17	US-10-424-599-41033
592	48.4	3.6	3673778	16	US-10-312-841-1
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596	48	3.6	431	17	US-10-425-115-168306
597	48	3.6	449	18	US-10-425-115-131667
598	48	3.6	660	17	US-10-424-599-85210
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600	48	3.6	889	18	US-10-437-963-95303
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c 604	47.8	3.6	363	17	US-10-424-599-21801	Sequence 21801, A	677	46.8	3.5	1001	17	US-10-424-599-85232	Sequence 85232, A
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c 606	47.8	3.6	569	18	US-10-021-323-7637	Sequence 7637, Ap	679	46.8	3.5	1937	18	US-10-357-930-23171	Sequence 23171, A
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c 608	47.8	3.6	967	18	US-10-425-115-87353	Sequence 87353, A	681	46.8	3.5	2790	16	US-10-029-386-22626	Sequence 22626, A
c 609	47.6	3.6	318	18	US-10-021-323-6340	Sequence 6340, Ap	682	46.8	3.5	2806	16	US-10-760-709-9	Sequence 215, App
c 610	47.6	3.6	517	18	US-10-437-963-15740	Sequence 15740, A	683	46.8	3.5	3107	17	US-10-108-260A-215	Sequence 35, Appl
c 611	47.6	3.6	2239	14	US-10-198-846-9807	Sequence 9807, Ap	684	46.8	3.5	3107	17	US-10-800-023-35	Sequence 60, Appl
c 612	47.6	3.6	4097	18	US-09-814-353-20144	Sequence 20144, A	685	46.8	3.5	3107	17	US-10-133-937-60	Sequence 203, Ap
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c 615	47.4	3.6	505	18	US-10-425-115-163765	Sequence 163765, A	688	46.6	3.5	7568	17	US-10-723-860-2203	Sequence 51278, A
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c 618	47.4	3.6	1117	17	US-10-424-599-47804	Sequence 47804, A	691	46.6	3.5	369	17	US-10-424-599-46723	Sequence 97640, A
c 619	47.4	3.6	1140	9	US-09-925-299-14	Sequence 14, Appl	692	46.6	3.5	387	18	US-10-425-115-97640	Sequence 4267, Ap
c 620	47.4	3.6	1320	14	US-10-060-036-4547	Sequence 4547, Ap	693	46.6	3.5	445	17	US-10-723-860-4267	Sequence 114565, A
c 621	47.4	3.6	1342	17	US-10-351-334-89	Sequence 89, Appl	694	46.6	3.5	475	17	US-10-424-599-114565	Sequence 17949, A
c 622	47.4	3.6	1926	15	US-10-294-804-3	Sequence 3, Appli	695	46.6	3.5	526	18	US-10-425-115-17949	Sequence 79737, A
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c 627	47.4	3.6	2045	9	US-10-058-993-22	Sequence 22, Appl	700	46.6	3.5	608	10	US-09-814-353-5190	Sequence 11478, A
c 628	47.4	3.6	2078	17	US-10-264-237-589	Sequence 589, App	701	46.6	3.5	608	10	US-10-425-115-102838	Sequence 102838, A
c 629	47.4	3.6	2511	9	US-09-965-529-63	Sequence 63, Appl	702	46.6	3.5	820	18	US-10-425-115-136611	Sequence 136611, A
c 630	47.4	3.6	2511	10	US-09-969-680A-63	Sequence 14, Appl	703	46.6	3.5	1056	18	US-10-425-115-136611	Sequence 147341, A
c 631	47.4	3.6	8705	15	US-10-291-249-14	Sequence 14, Appl	704	46.6	3.5	1459	17	US-10-425-115-147341	Sequence 13154, A
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c 635	47.4	3.6	10233	16	US-10-050-998-283	Sequence 283, App	708	46.6	3.5	6290	9	US-10-723-860-8114	Sequence 57, Appl
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c 637	47.4	3.6	10330	18	US-10-656-269-22	Sequence 22, Appl	710	46.4	3.5	145	17	US-10-333-184-56	Sequence 12673, A
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c 642	47.4	3.6	10774	18	US-10-656-269-23	Sequence 23, Appl	715	46.4	3.5	429	17	US-10-357-930-57399	Sequence 57399, A
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c 647	47.4	3.6	11924	18	US-10-678-816-7	Sequence 7, Appli	720	46.4	3.5	537	18	US-10-425-115-123971	Sequence 123971, A
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c 651	47.2	3.5	654	18	US-10-425-115-96692	Sequence 96692, A	724	46.4	3.5	565	18	US-10-425-115-136486	Sequence 12663, A
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c 668	46.8	3.5	440	10	US-09-814-353-9227	Sequence 3227, Ap	741	46.4	3.5	1654	10	US-09-771-023-3	Sequence 39, Appl
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c 672	46.8	3.5	556	18	US-10-357-930-40182	Sequence 40182, A	745	46.2	3.5	3970	10	US-09-814-353-5567	Sequence 11854, A
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C 877	46	3.5	576	18	US-10-425-115-145829	Sequence 145829, A	C 950	45.4	3.4	15518	15	US-10-311-455-2145	Sequence 2145, App
C 878	46	3.5	590	18	US-10-437-963-95856	Sequence 95856, A	C 951	45.4	3.4	15518	15	US-10-240-485-177	Sequence 177, App
C 879	46	3.5	662	17	US-10-424-599-83198	Sequence 83198, A	C 952	45.4	3.4	381	18	US-10-357-930-56447	Sequence 56447, A
C 880	46	3.5	1368	18	US-10-425-115-138542	Sequence 138542, A	C 953	45.4	3.4	387	18	US-10-425-115-175032	Sequence 175032, A
C 881	46	3.5	1661	18	US-10-723-860-8081	Sequence 8081, Ap	C 954	45.4	3.4	428	18	US-10-021-323-7700	Sequence 7700, Ap
C 882	46	3.5	1787	17	US-10-264-049-900	Sequence 900, App	C 955	45.4	3.4	431	18	US-10-357-930-56195	Sequence 56195, A
C 883	46	3.5	51259	17	US-10-374-077-209	Sequence 209, App	C 956	45.4	3.4	469	18	US-10-021-323-16830	Sequence 16830, A
C 884	45.8	3.4	244	17	US-10-424-599-12849	Sequence 12849, A	C 957	45.4	3.4	470	17	US-10-424-599-139525	Sequence 139525, A
C 885	45.8	3.4	257	9	US-09-954-456-2164	Sequence 2164, Ap	C 958	45.2	3.4	486	18	US-10-021-323-6536	Sequence 6536, Ap
C 886	45.8	3.4	257	9	US-09-880-107-3261	Sequence 3261, Ap	C 959	45.2	3.4	492	18	US-10-437-963-95104	Sequence 95104, A
C 887	45.8	3.4	292	17	US-10-424-599-6797	Sequence 6797, Ap	C 960	45.2	3.4	537	18	US-10-021-323-1736	Sequence 1736, Ap
C 888	45.8	3.4	392	18	US-10-357-930-48375	Sequence 48375, A	C 961	45.2	3.4	541	18	US-10-425-115-57898	Sequence 57898, A
C 889	45.8	3.4	479	9	US-09-764-869-350	Sequence 350, App	C 962	45.2	3.4	548	18	US-10-021-323-7921	Sequence 7921, Ap
C 890	45.8	3.4	479	14	US-10-091-504-350	Sequence 350, App	C 963	45.2	3.4	548	18	US-10-021-323-16019	Sequence 16019, A
C 891	45.8	3.4	479	17	US-10-227-577-350	Sequence 350, App	C 964	45.2	3.4	606	18	US-10-425-115-107110	Sequence 107110, A
C 892	45.8	3.4	523	17	US-10-425-115-32707	Sequence 32707, A	C 965	45.2	3.4	606	18	US-10-425-115-18622	Sequence 18622, A
C 893	45.8	3.4	524	17	US-10-424-599-101267	Sequence 101267, A	C 966	45.2	3.4	804	18	US-10-425-115-169645	Sequence 169645, A
C 894	45.8	3.4	534	18	US-10-021-323-7301	Sequence 7301, Ap	C 967	45.2	3.4	804	18	US-10-425-115-181076	Sequence 181076, A
C 895	45.8	3.4	542	18	US-10-425-115-7873	Sequence 7873, Ap	C 968	45.2	3.4	1393	17	US-10-424-599-135514	Sequence 135514, A
C 896	45.8	3.4	580	18	US-10-425-115-76168	Sequence 76168, A	C 969	45.2	3.4	1418	16	US-10-289-757-158	Sequence 158, App
C 897	45.8	3.4	583	17	US-10-425-115-50595	Sequence 50595, A	C 970	45.2	3.4	1444	18	US-10-437-963-53733	Sequence 53733, A
C 898	45.8	3.4	607	17	US-10-424-599-87303	Sequence 87303, A	C 971	45.2	3.4	1545	18	US-10-425-115-53216	Sequence 53216, A
C 899	45.8	3.4	638	10	US-09-814-353-5533	Sequence 5533, Ap	C 972	45.2	3.4	1814	18	US-10-723-860-3255	Sequence 3255, Ap
C 900	45.8	3.4	1012	18	US-09-814-353-11820	Sequence 11820, A	C 973	45.2	3.4	2092	18	US-10-425-115-58999	Sequence 58999, A
C 901	45.8	3.4	1012	18	US-10-425-115-137579	Sequence 137579, A	C 974	45.2	3.4	2218	14	US-09-933-767-232	Sequence 232, App
C 902	45.8	3.4	1105	17	US-10-078-770-155	Sequence 155, App	C 975	45.2	3.4	2218	14	US-10-004-860-103	Sequence 103, App
C 903	45.8	3.4	1109	17	US-10-424-599-72999	Sequence 72999, A	C 976	45.2	3.4	2218	14	US-10-023-282-103	Sequence 103, App
C 904	45.8	3.4	1201	18	US-10-723-860-7276	Sequence 7276, Ap	C 977	45.2	3.4	2464	17	US-10-424-599-39058	Sequence 39058, A
C 905	45.8	3.4	1432	18	US-10-739-930-1719	Sequence 1719, Ap	C 978	45.2	3.4	2826	18	US-10-723-860-5302	Sequence 5302, Ap
C 906	45.8	3.4	1499	18	US-10-437-963-9446	Sequence 9446, Ap	C 979	45.2	3.4	3602	14	US-10-171-311-67	Sequence 67, Appl
C 907	45.8	3.4	2003	18	US-10-723-860-5400	Sequence 5400, Ap	C 980	45.2	3.4	256	9	US-09-732-560-89	Sequence 89, Appl
C 908	45.8	3.4	2025	18	US-10-425-115-83342	Sequence 83342, A	C 981	45.2	3.4	287	17	US-10-425-115-160516	Sequence 160516, A
C 909	45.8	3.4	2369	18	US-10-739-930-72	Sequence 72, Appl	C 982	45.2	3.4	339	17	US-10-424-599-25262	Sequence 25262, A
C 910	45.8	3.4	2688	17	US-10-424-599-119371	Sequence 119371, A	C 983	45.2	3.4	339	17	US-10-424-599-1254	Sequence 1254, Ap
C 911	45.6	3.4	271	17	US-10-424-599-76834	Sequence 76834, A	C 984	45.2	3.4	399	17	US-10-424-599-116418	Sequence 116418, A
C 912	45.6	3.4	319	17	US-10-424-599-120040	Sequence 120040, A	C 985	45.2	3.4	409	17	US-10-424-599-13063	Sequence 13063, A
C 913	45.6	3.4	323	18	US-10-424-599-111180	Sequence 111180, A	C 986	45	3.4	412	18	US-10-437-963-20515	Sequence 20515, A
C 914	45.6	3.4	323	18	US-10-357-930-61015	Sequence 61015, A	C 987	45	3.4	451	18	US-10-357-930-56797	Sequence 56797, A
C 915	45.6	3.4	385	18	US-10-425-115-83451	Sequence 83451, A	C 988	45	3.4	453	10	US-09-814-353-4809	Sequence 4809, Ap
C 916	45.6	3.4	405	18	US-10-425-115-28463	Sequence 28463, A	C 989	45	3.4	476	13	US-10-001-843-87	Sequence 87, Appl
C 917	45.6	3.4	420	10	US-09-814-353-12772	Sequence 12772, A	C 990	45	3.4				
C 918	45.6	3.4	421	10	US-09-814-353-5169	Sequence 5169, Ap	C 991	45	3.4				
C 919	45.6	3.4	438	18	US-10-357-930-45909	Sequence 45909, A	C 992	45	3.4				
C 920	45.6	3.4	465	14	US-10-198-846-1482	Sequence 1482, Ap	C 993	45	3.4				
C 921	45.6	3.4	482	18	US-10-425-115-41043	Sequence 41043, A	C 994	45	3.4				
C 922	45.6	3.4	534	18	US-10-021-323-13500	Sequence 13500, A	C 995	45	3.4				
C 923	45.6	3.4	549	10	US-09-814-353-17939	Sequence 17939, A	C 996	45	3.4				

997	45	3.4	520	18	US-10-357-930-55272	Sequence 55272, A	1070	44.8	3.4	2852	13	US-10-117-824-2	Sequence 2, Appli
c 998	45	3.4	525	18	US-10-425-115-185549	Sequence 185549, A	1071	44.8	3.4	3333	15	US-10-060-895A-1	Sequence 1, Appli
c 999	45	3.4	537	18	US-10-425-115-57837	Sequence 57837, A	1072	44.8	3.4	6410	13	US-09-922-217-1094	Sequence 1094, Ap
c 1000	45	3.4	546	18	US-10-767-795-3056	Sequence 3056, Ap	1073	44.8	3.4	6410	13	US-10-025-380-1094	Sequence 1094, Ap
c1001	45	3.4	552	18	US-10-021-323-17351	Sequence 17351, A	1074	44.6	3.3	302	9	US-09-925-299-710	Sequence 710, App
c1002	45	3.4	562	18	US-10-021-323-456	Sequence 456, App	1075	44.6	3.3	302	9	US-09-925-299-710	Sequence 710, App
c1003	45	3.4	562	18	US-10-425-115-159280	Sequence 159280, A	1076	44.6	3.3	409	18	US-10-021-323-11706	Sequence 11706, A
c1004	45	3.4	566	18	US-09-814-353-17510	Sequence 17510, A	1077	44.6	3.3	409	18	US-10-424-599-73438	Sequence 73438, A
c1005	45	3.4	566	18	US-10-425-115-184070	Sequence 184070, A	1078	44.6	3.3	423	17	US-10-424-599-104642	Sequence 104642, A
c1006	45	3.4	584	18	US-10-425-115-183673	Sequence 183673, A	1079	44.6	3.3	423	17	US-10-424-599-13861	Sequence 13861, A
c1007	45	3.4	590	18	US-10-425-115-151030	Sequence 151030, A	1080	44.6	3.3	423	17	US-10-424-599-13862	Sequence 13862, A
c1008	45	3.4	735	18	US-10-425-115-86954	Sequence 86954, A	1081	44.6	3.3	468	18	US-10-021-323-8271	Sequence 8271, Ap
c1009	45	3.4	760	18	US-10-357-930-29499	Sequence 29499, A	1082	44.6	3.3	474	18	US-10-357-930-61453	Sequence 61453, A
c1010	45	3.4	802	18	US-10-767-795-5128	Sequence 5128, Ap	1083	44.6	3.3	474	18	US-10-357-930-61453	Sequence 61453, A
c1011	45	3.4	891	17	US-10-333-184-333	Sequence 333, App	1084	44.6	3.3	476	10	US-09-814-353-4700	Sequence 4700, Ap
c1012	45	3.4	925	18	US-10-425-115-69888	Sequence 69888, A	1085	44.6	3.3	476	10	US-09-814-353-4700	Sequence 4700, Ap
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c1014	45	3.4	1010	18	US-10-425-115-159122	Sequence 159122, A	1087	44.6	3.3	500	17	US-10-437-963-47048	Sequence 47048, A
c1015	45	3.4	1229	18	US-10-425-115-86355	Sequence 86355, A	1088	44.6	3.3	516	18	US-10-021-323-16996	Sequence 16996, A
c1016	45	3.4	1229	18	US-10-389-566-329	Sequence 329, App	1089	44.6	3.3	516	18	US-10-021-323-16996	Sequence 16996, A
c1017	45	3.4	1964	17	US-09-764-898-48	Sequence 48, Appl	1090	44.6	3.3	526	18	US-10-425-115-2722	Sequence 2722, Ap
c1018	45	3.4	2020	9	US-10-264-049-885	Sequence 885, App	1091	44.6	3.3	534	9	US-09-834-975-59	Sequence 59, Appl
c1019	45	3.4	2430	17	US-10-425-115-58156	Sequence 58156, A	1092	44.6	3.3	534	9	US-10-425-115-17282	Sequence 17282, A
c1020	45	3.4	3004	18	US-09-764-864-510	Sequence 510, App	1093	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1021	45	3.4	3133	9	US-10-311-455-1972	Sequence 1972, Ap	1094	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1022	44.8	3.4	253	18	US-10-767-795-2217	Sequence 2217, Ap	1095	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1023	44.8	3.4	318	18	US-10-425-115-144637	Sequence 144637, A	1096	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
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c1025	44.8	3.4	395	9	US-09-770-423-895	Sequence 895, App	1098	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
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c1028	44.8	3.4	425	18	US-10-357-930-38081	Sequence 38081, A	1101	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
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c1031	44.8	3.4	451	18	US-09-814-353-14706	Sequence 14706, A	1104	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
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c1033	44.8	3.4	477	18	US-10-021-323-6693	Sequence 6693, Ap	1106	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1034	44.8	3.4	481	18	US-10-021-323-14521	Sequence 14521, A	1107	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1035	44.8	3.4	481	18	US-10-437-963-78790	Sequence 78790, A	1108	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1036	44.8	3.4	496	18	US-10-021-323-17062	Sequence 17062, A	1109	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1037	44.8	3.4	504	18	US-10-425-115-124511	Sequence 124511, A	1110	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1038	44.8	3.4	513	18	US-10-021-323-10547	Sequence 10547, A	1111	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1039	44.8	3.4	515	18	US-10-021-323-4545	Sequence 4545, Ap	1112	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1040	44.8	3.4	517	18	US-10-021-323-10114	Sequence 10114, A	1113	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
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c1042	44.8	3.4	523	10	US-09-814-353-1976	Sequence 1976, Ap	1115	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1043	44.8	3.4	523	18	US-10-021-323-6375	Sequence 6375, Ap	1116	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1044	44.8	3.4	531	18	US-10-425-115-188158	Sequence 188158, A	1117	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1045	44.8	3.4	531	18	US-10-425-115-25718	Sequence 25718, A	1118	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1046	44.8	3.4	542	17	US-10-424-599-98302	Sequence 98302, A	1119	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1047	44.8	3.4	542	18	US-10-425-115-122846	Sequence 122846, A	1120	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1048	44.8	3.4	542	18	US-10-425-115-159872	Sequence 159872, A	1121	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1049	44.8	3.4	582	18	US-10-425-115-147942	Sequence 147942, A	1122	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1050	44.8	3.4	583	18	US-10-425-115-85733	Sequence 85733, A	1123	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1051	44.8	3.4	595	18	US-10-425-115-15483	Sequence 15483, A	1124	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
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c1054	44.8	3.4	649	18	US-10-425-115-139145	Sequence 139145, A	1127	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1055	44.8	3.4	690	17	US-10-424-599-134326	Sequence 134326, A	1128	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1056	44.8	3.4	1001	10	US-09-986-480-93	Sequence 93, Appl	1129	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
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c1059	44.8	3.4	1463	18	US-10-425-115-157479	Sequence 157479, A	1132	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
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c1061	44.8	3.4	1464	18	US-10-425-115-157462	Sequence 157462, A	1134	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1062	44.8	3.4	1464	18	US-10-425-115-157462	Sequence 157462, A	1135	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1063	44.8	3.4	1698	18	US-10-425-115-133569	Sequence 133569, A	1136	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1064	44.8	3.4	1747	18	US-10-425-115-133569	Sequence 133569, A	1137	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1065	44.8	3.4	2035	18	US-10-723-860-8142	Sequence 8142, Ap	1138	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1066	44.8	3.4	2077	17	US-10-424-599-108571	Sequence 108571, A	1139	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1067	44.8	3.4	2224	18	US-10-723-860-6338	Sequence 6338, Ap	1140	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1068	44.8	3.4	2226	9	US-09-925-301-369	Sequence 369, App	1141	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A
c1069	44.8	3.4	2235	17	US-10-424-599-70027	Sequence 70027, A	1142	44.6	3.3	534	9	US-10-437-963-43799	Sequence 43799, A

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c1144	44.4	3.3	478	18	US-10-021-323-6799	Sequence 8799, Ap	1217	44.2	3.3	695	18	US-10-767-795-3196	Sequence 3196, Ap
c1145	44.4	3.3	480	18	US-10-021-323-6568	Sequence 6568, Ap	c1218	44.2	3.3	714	10	US-09-814-353-4684	Sequence 4684, Ap
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SUMMARIES

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543	91.5	12.5	5387	13	US-10-001-873-22 Sequence 22, Appli
c 544	91	12.5	769	18	US-10-363-345A-16435 Sequence 16435, A
545	91	12.5	769	18	US-10-363-345A-16436 Sequence 16436, A
c 546	90	12.3	6935	17	US-10-240-589C-71 Sequence 71, Appl
c 547	89	12.2	632	18	US-10-767-701-19464 Sequence 19464, A
c 548	89	12.2	110096	9	US-09-880-107-1542 Sequence 1542, Ap
c 549	88.5	12.1	4127	18	US-10-425-115-18774 Sequence 18774, A
c 550	87.5	12.0	461	18	US-10-425-115-68764 Sequence 68764, A
551	87	11.9	1294	16	US-10-029-386-20774 Sequence 20774, A
552	87	11.9	3054	18	US-10-767-701-13918 Sequence 13918, A
c 553	86.5	11.8	573	18	US-10-425-115-40926 Sequence 40926, A
c 554	86.5	11.8	2414	17	US-10-424-599-24134 Sequence 24134, A
555	86.5	11.8	3895	18	US-10-494-674-43 Sequence 43, Appl
556	86.5	11.8	3895	18	US-10-494-672-193 Sequence 193, App
557	86.5	11.8	49914	18	US-10-322-281-299 Sequence 299, App
558	86.5	11.8	9025608	15	US-10-156-761-1 Sequence 1, Appli
559	85	11.8	487	17	US-10-424-599-21693 Sequence 21693, A
560	85	11.8	1298	16	US-10-029-386-20839 Sequence 20839, A
561	86	11.8	2544	10	US-09-875-321-3 Sequence 3, Appli
562	86	11.8	2544	14	US-10-162-012-3 Sequence 3, Appli
563	86	11.8	2544	17	US-10-162-102-3 Sequence 3, Appli
564	86	11.8	2544	19	US-10-916-061-3 Sequence 3, Appli
565	86	11.8	3525	10	US-09-875-321-1 Sequence 1, Appli
566	86	11.8	3525	14	US-10-162-012-1 Sequence 1, Appli
567	86	11.8	3525	17	US-10-162-102-1 Sequence 1, Appli
c 568	86	11.8	3525	17	US-10-916-061-1 Sequence 1, Appli
c 569	86	11.8	85506	17	US-10-085-117-220 Sequence 220, App
c 570	85.5	11.7	1247	18	US-10-363-345A-20491 Sequence 20491, A
c 571	85.5	11.7	1247	18	US-10-363-345A-20492 Sequence 20492, A
c 572	85.5	11.7	1328	18	US-10-767-701-15377 Sequence 15377, A
573	85.5	11.7	19462	19	US-10-741-600-17715 Sequence 17715, A
574	85.5	11.7	23810	19	US-10-741-600-17925 Sequence 17925, A
c 575	85	11.6	568	16	US-10-029-386-572 Sequence 572, App
c 576	85	11.6	1809	17	US-10-282-122A-30161 Sequence 30161, A
577	85	11.6	2271	17	US-10-085-117-153 Sequence 153, App
578	85	11.6	4529	17	US-10-085-117-152 Sequence 152, App
579	85	11.6	77038	17	US-10-085-117-151 Sequence 151, App
c 580	85	11.6	77530	18	US-10-322-281-265 Sequence 265, App
c 581	85	11.6	151830	18	US-10-744-796-37 Sequence 37, Appl
582	84.5	11.6	648	18	US-10-437-963-73311 Sequence 73311, A
c 583	84.5	11.6	755	18	US-10-363-345A-575 Sequence 575, App
584	84.5	11.6	755	18	US-10-363-345A-576 Sequence 576, App
585	84.5	11.6	1798	18	US-10-437-963-34224 Sequence 34224, A
c 586	84.5	11.6	1843	9	US-09-917-800A-1625 Sequence 1625, Ap

C 587	84.5	11.6	1843	17	US-10-191-803-84	Sequence 84, Appl	660	82	11.2	5294	15	US-10-226-315-1	Sequence 1, Appl
C 588	84.5	11.6	1843	17	US-10-152-319A-1641	Sequence 1641, Ap	661	82	11.2	7084	15	US-10-017-161-689	Sequence 689, App
C 589	84.5	11.6	1843	17	US-10-467-008-10	Sequence 10, Appl	C 662	81.5	11.2	534	16	US-10-029-386-8341	Sequence 8341, Ap
C 590	84.5	11.6	12132	18	US-10-719-993-6980	Sequence 2980, Ap	C 663	81.5	11.2	553	16	US-10-767-701-26798	Sequence 26798, A
C 591	84.5	11.6	61468	17	US-10-085-117-232	Sequence 294, App	C 664	81.5	11.2	579	18	US-10-437-963-313	Sequence 313, App
C 592	84	11.5	567	18	US-10-437-963-24972	Sequence 24972, A	C 665	81.5	11.2	699	13	US-10-027-632-193099	Sequence 193099,
C 593	84	11.5	775	19	US-10-729-830-3	Sequence 3, Appl	C 666	81.5	11.2	699	13	US-10-027-632-193099	Sequence 193099,
C 594	84	11.5	942	19	US-10-729-830-6	Sequence 6, Appl	C 667	81.5	11.2	718	18	US-10-425-115-47443	Sequence 47443, A
C 595	84	11.5	1483	18	US-10-437-963-67369	Sequence 67369, A	C 668	81.5	11.2	1213	17	US-10-425-115-47443	Sequence 47443, A
C 596	84	11.5	1759	17	US-10-425-114-9314	Sequence 9314, Ap	C 669	81.5	11.2	2299	18	US-10-437-963-32105	Sequence 32105, A
C 597	84	11.5	1864	17	US-10-425-114-10463	Sequence 10463, A	C 670	81.5	11.2	2299	18	US-10-437-963-32105	Sequence 32105, A
C 598	84	11.5	1874	17	US-10-424-599-123054	Sequence 123054, A	C 671	81.5	11.2	2299	18	US-10-437-963-32105	Sequence 32105, A
C 599	84	11.5	3650	18	US-10-437-963-31886	Sequence 31886, A	C 672	81.5	11.2	3345	18	US-10-807-856-29	Sequence 29, Appl
C 600	84	11.5	38259	17	US-10-085-117-325	Sequence 325, App	C 673	81.5	11.2	3345	18	US-10-807-856-29	Sequence 29, Appl
C 601	83.5	11.4	739	9	US-10-425-115-98170	Sequence 98170, A	C 674	81.5	11.2	5022	17	US-10-172-118-1525	Sequence 1525, Ap
C 602	83.5	11.4	938	9	US-10-425-115-98170	Sequence 16, Appl	C 675	81.5	11.2	5022	17	US-10-440-464-100	Sequence 100, App
C 603	83.5	11.4	1259	18	US-10-739-930-3738	Sequence 3738, Ap	C 676	81.5	11.2	5022	17	US-10-342-887-1525	Sequence 1525, Ap
C 604	83.5	11.4	1640	17	US-10-424-599-3885	Sequence 3885, Ap	C 677	81.5	11.2	11832	9	US-09-037-657-38	Sequence 38, Appl
C 605	83.5	11.4	1930	9	US-09-037-657-22	Sequence 22, Appl	C 678	81.5	11.2	12425	13	US-09-976-740-50	Sequence 50, Appl
C 606	83.5	11.4	2951	16	US-10-376-133-9	Sequence 9, Appl	C 679	81.5	11.2	12425	13	US-10-023-529-50	Sequence 50, Appl
C 607	83.5	11.4	2951	17	US-10-108-260A-2210	Sequence 2210, Ap	C 680	81.5	11.2	12425	13	US-10-023-529-50	Sequence 50, Appl
C 608	83.5	11.4	5187	8	US-08-954-701A-3	Sequence 3, Appl	C 681	81.5	11.2	12425	13	US-10-616-187-50	Sequence 50, Appl
C 609	83.5	11.4	5187	8	US-08-954-701A-3	Sequence 9, Appl	C 682	81.5	11.2	12425	17	US-10-616-187-50	Sequence 50, Appl
C 610	83.5	11.4	5187	10	US-09-754-032-9	Sequence 9, Appl	C 683	81.5	11.2	12559	18	US-10-719-993-7046	Sequence 7046, Ap
C 611	83.5	11.4	5187	10	US-09-754-032-9	Sequence 9, Appl	C 684	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 612	83.5	11.4	5187	16	US-10-421-446-3	Sequence 3, Appl	C 685	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 613	83.5	11.4	5187	16	US-10-421-446-9	Sequence 9, Appl	C 686	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 614	83.5	11.4	5288	8	US-08-954-701A-18	Sequence 18, Appl	C 687	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 615	83.5	11.4	5288	16	US-09-754-032-18	Sequence 18, Appl	C 688	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 616	83.5	11.4	5288	16	US-10-421-446-18	Sequence 18, Appl	C 689	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 617	83.5	11.4	6568	16	US-10-302-279-1	Sequence 1, Appl	C 690	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 618	83.5	11.4	6663	9	US-09-037-657-28	Sequence 28, Appl	C 691	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 619	83.5	11.4	10434	10	US-09-764-891-6160	Sequence 6160, Ap	C 692	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 620	83.5	11.4	11298	9	US-09-764-847-1343	Sequence 1343, Ap	C 693	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 621	83.5	11.4	11298	14	US-10-092-154-1343	Sequence 1343, Ap	C 694	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 622	83.5	11.4	22976	17	US-10-650-507-19	Sequence 19, Appl	C 695	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 623	83.5	11.4	41936	9	US-09-967-708A-116	Sequence 116, Appl	C 696	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 624	83.5	11.4	139389	17	US-10-236-031B-61	Sequence 61, Appl	C 697	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 625	83.5	11.4	775082	18	US-10-719-993-6844	Sequence 6844, Ap	C 698	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 626	83	11.4	564	18	US-10-653-047-3966	Sequence 3966, Ap	C 699	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 627	83	11.4	613	13	US-10-027-632-291357	Sequence 291357,	C 700	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 628	83	11.4	613	13	US-10-027-632-291357	Sequence 291357,	C 701	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 629	83	11.4	762	9	US-09-738-626-3116	Sequence 3116, Ap	C 702	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 630	83	11.4	972	17	US-10-282-122A-26479	Sequence 26479, A	C 703	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 631	83	11.4	975	17	US-10-282-122A-28212	Sequence 28212, A	C 704	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 632	83	11.4	4280	17	US-10-242-355-683	Sequence 683, App	C 705	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 633	83	11.4	22173	18	US-10-322-696-28	Sequence 28, Appl	C 706	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 634	83	11.4	66916	18	US-10-741-601-5708	Sequence 5708, Ap	C 707	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 635	83	11.4	66916	19	US-10-741-600-17810	Sequence 17810, A	C 708	81	11.1	540	18	US-10-425-115-135649	Sequence 135649,
C 636	82.5	11.3	796	14	US-10-198-846-5698	Sequence 5698, Ap	C 709	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 637	82.5	11.3	872	18	US-10-437-963-37705	Sequence 37705, A	C 710	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 638	82.5	11.3	1629	15	US-10-156-763-5000	Sequence 5000, Ap	C 711	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 639	82.5	11.3	1975	18	US-10-264-237-1379	Sequence 1379, Ap	C 712	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 640	82.5	11.3	2049	18	US-10-437-963-27643	Sequence 27643, A	C 713	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 641	82.5	11.3	2063	17	US-10-104-047-1711	Sequence 1711, Ap	C 714	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 642	82.5	11.3	5567	17	US-10-276-774-733	Sequence 733, App	C 715	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 643	82.5	11.3	6649	17	US-10-302-172-384	Sequence 384, App	C 716	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 644	82.5	11.3	23187	16	US-10-214-684A-1	Sequence 1, Appl	C 717	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 645	82	11.2	511	9	US-09-864-761-22817	Sequence 22817, A	C 718	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 646	82	11.2	575	9	US-09-864-761-22817	Sequence 22817, A	C 719	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 647	82	11.2	613	13	US-10-027-632-291358	Sequence 291358,	C 720	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
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C 649	82	11.2	868	9	US-09-925-300-299	Sequence 299, App	C 722	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 650	82	11.2	1385	17	US-10-425-114-34019	Sequence 34019, A	C 723	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 651	82	11.2	1969	9	US-09-864-761-3972	Sequence 3972, Ap	C 724	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 652	82	11.2	2007	18	US-10-844-874-9	Sequence 9, Appl	C 725	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 653	82	11.2	2035	10	US-09-873-367C-711	Sequence 711, App	C 726	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 654	82	11.2	2162	14	US-10-198-846-13433	Sequence 13433, A	C 727	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 655	82	11.2	2512	17	US-10-425-114-19677	Sequence 19677, A	C 728	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 656	82	11.2	3422	18	US-10-425-115-116763	Sequence 116763,	C 729	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 657	82	11.2	4152	15	US-10-226-315-5	Sequence 5, Appl	C 730	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 658	82	11.2	5293	18	US-09-873-367C-279	Sequence 279, App	C 731	80.5	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A
C 659	82	11.2	5293	18	US-10-723-860-4388	Sequence 4388, Ap	C 732	80	11.0	433	18	US-10-674-124A-21413	Sequence 21413, A

c 733	80	11.0	540	10	US-09-814-353-19008	Sequence 19008, A	806	78.5	10.8	557	18	US-10-425-115-174457	Sequence 174457,
c 734	80	11.0	589	18	US-10-425-115-139218	Sequence 139218, A	c 807	78.5	10.8	598	18	US-10-425-115-8777	Sequence 8777, Ap
c 735	80	11.0	598	18	US-10-425-115-32291	Sequence 32291, A	c 808	78.5	10.8	599	13	US-10-027-632-308806	Sequence 308806,
c 736	80	11.0	1428	9	US-10-369-493-45779	Sequence 45779, A	c 809	78.5	10.8	619	13	US-10-027-632-308807	Sequence 308807,
c 737	80	11.0	2150	9	US-09-826-752-13	Sequence 13, Appl	c 810	78.5	10.8	619	17	US-10-027-632-308806	Sequence 308806,
c 738	80	11.0	2150	19	US-10-912-434-13	Sequence 13, Appl	c 811	78.5	10.8	619	17	US-10-027-632-308807	Sequence 308807,
c 739	80	11.0	2395	15	US-10-106-698-1042	Sequence 1042, Ap	c 812	78.5	10.8	627	18	US-10-363-345A-25425	Sequence 25425, A
c 740	80	11.0	2495	18	US-10-437-963-53790	Sequence 53790, A	c 813	78.5	10.8	627	18	US-10-363-345A-25426	Sequence 25426, A
c 741	80	11.0	8058	9	US-09-880-107-2327	Sequence 2327, Ap	c 814	78.5	10.8	853	18	US-10-425-115-68118	Sequence 68118, A
c 742	80	11.0	32373	8	US-10-322-696-22	Sequence 22, Appl	c 815	78.5	10.8	948	18	US-10-425-115-114871	Sequence 114871,
c 743	80	11.0	54648	17	US-10-085-117-289	Sequence 289, App	c 816	78.5	10.8	988	18	US-10-437-963-21723	Sequence 21723, A
c 744	79.5	10.9	475	9	US-09-864-761-6203	Sequence 6203, Ap	c 817	78.5	10.8	1046	18	US-10-425-115-22735	Sequence 22735, A
c 745	79.5	10.9	538	18	US-10-425-115-140916	Sequence 140916, A	c 818	78.5	10.8	1059	18	US-10-437-963-80301	Sequence 80301, A
c 746	79.5	10.9	544	13	US-10-027-632-290828	Sequence 290828, A	c 819	78.5	10.8	1286	18	US-10-767-701-13663	Sequence 13663, A
c 747	79.5	10.9	544	17	US-10-027-632-290828	Sequence 290828, A	c 820	78.5	10.8	1286	17	US-10-369-493-35707	Sequence 35707, A
c 748	79.5	10.9	814	17	US-10-424-593-96339	Sequence 96339, A	c 821	78.5	10.8	1329	15	US-10-156-761-5661	Sequence 5661, Ap
c 749	79.5	10.9	903	18	US-10-437-963-41240	Sequence 41240, A	c 822	78.5	10.8	1329	18	US-10-357-930-23335	Sequence 23335, A
c 750	79.5	10.9	1001	18	US-10-425-115-149256	Sequence 149256, A	c 823	78.5	10.8	1388	18	US-10-357-930-23218	Sequence 29218, A
c 751	79.5	10.9	1001	17	US-10-424-593-1362	Sequence 1362, Ap	c 824	78.5	10.8	1388	18	US-10-437-963-42083	Sequence 42083, A
c 752	79.5	10.9	1050	17	US-10-369-493-31866	Sequence 31866, A	c 825	78.5	10.8	1360	9	US-09-738-626-507	Sequence 507, App
c 753	79.5	10.9	1078	18	US-10-363-345A-4013	Sequence 4013, Ap	c 826	78.5	10.8	1568	18	US-10-437-963-47855	Sequence 47855, A
c 754	79.5	10.9	1078	18	US-10-363-345A-4014	Sequence 4014, Ap	c 827	78.5	10.8	1683	18	US-10-781-014-587	Sequence 587, App
c 755	79.5	10.9	1812	17	US-10-267-502-149	Sequence 149, App	c 828	78.5	10.8	1690	19	US-10-494-836-11	Sequence 11, Appl
c 756	79.5	10.9	2031	18	US-10-473-574-51	Sequence 51, Appl	c 829	78.5	10.8	1690	19	US-10-494-836-17	Sequence 17, Appl
c 757	79.5	10.9	2283	18	US-10-437-963-6240	Sequence 6240, Ap	c 830	78.5	10.8	1695	18	US-10-363-345A-26913	Sequence 26913, A
c 758	79.5	10.9	2307	17	US-09-893-519A-87	Sequence 87, Appl	c 831	78.5	10.8	1695	18	US-10-363-345A-26914	Sequence 26914, A
c 759	79.5	10.9	3029	17	US-10-034-650-29	Sequence 29, Appl	c 832	78.5	10.8	1901	17	US-10-424-599-131648	Sequence 131648, A
c 760	79.5	10.9	3414	14	US-10-074-475-36	Sequence 36, Appl	c 833	78.5	10.8	2118	17	US-10-385-802-33	Sequence 33, Appl
c 761	79.5	10.9	27684	9	US-10-034-650-28	Sequence 28, Appl	c 834	78.5	10.8	2409	18	US-10-437-963-53415	Sequence 53415, A
c 762	79.5	10.9	31814	9	US-09-817-182-3	Sequence 3, Appl	c 835	78.5	10.8	2409	18	US-09-964-824A-266	Sequence 266, App
c 763	79.5	10.9	31814	18	US-10-473-349-3	Sequence 3, Appl	c 836	78.5	10.8	2409	18	US-10-437-963-53415	Sequence 53415, A
c 764	79.5	10.9	49589	18	US-10-322-281-814	Sequence 814, App	c 837	78.5	10.8	10578	17	US-10-292-798-867	Sequence 867, App
c 765	79.5	10.9	80339	18	US-10-918-993-6831	Sequence 6831, Ap	c 838	78.5	10.8	76064	19	US-10-741-600-17739	Sequence 17739, A
c 766	79.5	10.9	418	9	US-09-719-995-4290	Sequence 4290, Ap	c 839	78.5	10.8	157875	14	US-09-935-464-1	Sequence 1, Appl
c 767	79.5	10.8	487	9	US-09-747-155-301	Sequence 301, App	c 840	78.5	10.8	157875	14	US-10-125-835-1	Sequence 1, Appl
c 768	79.5	10.8	702	18	US-10-425-115-95429	Sequence 95429, A	c 841	78.5	10.8	177049	18	US-10-322-696-49	Sequence 49, Appl
c 769	79.5	10.8	864	18	US-10-437-963-7989	Sequence 7989, Ap	c 842	78.5	10.8	366710	18	US-10-719-993-6792	Sequence 6792, Ap
c 770	79.5	10.8	876	18	US-10-425-115-117881	Sequence 117881, A	c 843	78.5	10.8	3309400	9	US-09-738-626-1	Sequence 1, Appl
c 771	79.5	10.8	907	17	US-10-425-114-33687	Sequence 33687, A	c 844	78.5	10.7	503	18	US-10-425-115-174329	Sequence 174329, A
c 772	79.5	10.8	1104	17	US-10-425-114-31023	Sequence 31023, A	c 845	78.5	10.7	554	16	US-10-029-386-5012	Sequence 5012, Ap
c 773	79.5	10.8	1210	17	US-10-425-114-19235	Sequence 19235, A	c 846	78.5	10.7	574	17	US-10-424-599-25076	Sequence 25076, A
c 774	79.5	10.8	1678	17	US-10-116-275-295	Sequence 295, App	c 847	78.5	10.7	575	18	US-10-363-345A-3835	Sequence 3835, Ap
c 775	79.5	10.8	1980	18	US-10-437-963-35290	Sequence 35290, A	c 848	78.5	10.7	575	18	US-10-363-345A-3836	Sequence 3836, Ap
c 776	79.5	10.8	1995	18	US-10-425-115-56774	Sequence 56774, A	c 849	78.5	10.7	600	17	US-10-424-554-63	Sequence 63, Appl
c 777	79.5	10.8	2007	17	US-10-260-238-2292	Sequence 2292, Ap	c 850	78.5	10.7	626	17	US-10-451-646-25	Sequence 25, Appl
c 778	79.5	10.8	2007	17	US-10-260-238-530	Sequence 530, App	c 851	78.5	10.7	676	18	US-10-767-701-13251	Sequence 13251, A
c 779	79.5	10.8	2055	18	US-10-425-115-110259	Sequence 110259, A	c 852	78.5	10.7	696	18	US-10-767-701-2324	Sequence 2324, Ap
c 780	79.5	10.8	2345	18	US-10-425-115-110687	Sequence 110687, A	c 853	78.5	10.7	708	18	US-10-653-047-7459	Sequence 7459, Ap
c 781	79.5	10.8	2503	17	US-10-074-024-873	Sequence 873, App	c 854	78.5	10.7	726	18	US-10-425-115-63937	Sequence 63937, A
c 782	79.5	10.8	2606	18	US-10-437-963-92933	Sequence 92933, A	c 855	78.5	10.7	738	18	US-10-425-115-146613	Sequence 146613, A
c 783	79.5	10.8	3808	14	US-10-174-363-11	Sequence 11, Appl	c 856	78.5	10.7	807	18	US-10-363-345A-3397	Sequence 3397, Ap
c 784	79.5	10.8	3894	18	US-10-425-115-95431	Sequence 95431, A	c 857	78.5	10.7	807	18	US-10-363-345A-3398	Sequence 3398, Ap
c 785	79.5	10.8	5449	16	US-10-327-813-9	Sequence 9, Appl	c 858	78.5	10.7	816	18	US-10-425-115-91989	Sequence 91989, A
c 786	79.5	10.8	5449	17	US-10-329-668-9	Sequence 9, Appl	c 859	78.5	10.7	1002	17	US-10-187-975-5	Sequence 5, Appl
c 787	79.5	10.8	5449	18	US-10-717-041-9	Sequence 9, Appl	c 860	78.5	10.7	1066	18	US-10-767-701-5653	Sequence 5653, Ap
c 788	79.5	10.8	5515	16	US-10-313-649-2	Sequence 2, Appl	c 861	78.5	10.7	1387	17	US-10-425-114-9681	Sequence 9681, Ap
c 789	79.5	10.8	5515	17	US-10-428-551-2	Sequence 2, Appl	c 862	78.5	10.7	1446	15	US-10-172-086-103	Sequence 103, Ap
c 790	79.5	10.8	5515	18	US-10-794-198A-2	Sequence 2, Appl	c 863	78.5	10.7	1446	18	US-10-311-507-67	Sequence 67, Appl
c 791	79.5	10.8	5988	18	US-10-437-963-99792	Sequence 99792, A	c 864	78.5	10.7	1446	18	US-10-480-846-103	Sequence 103, App
c 792	79.5	10.8	21781	18	US-10-322-696-25	Sequence 25, Appl	c 865	78.5	10.7	1614	9	US-09-976-740-45	Sequence 45, Appl
c 793	79.5	10.8	38692	18	US-10-322-696-121	Sequence 121, App	c 866	78.5	10.7	1614	13	US-10-023-529-45	Sequence 45, Appl
c 794	79.5	10.8	48680	13	US-10-087-192-2044	Sequence 2044, Ap	c 867	78.5	10.7	1614	13	US-10-023-529-45	Sequence 45, Appl
c 795	79.5	10.8	70779	13	US-10-087-192-1012	Sequence 1012, Ap	c 868	78.5	10.7	1614	17	US-10-616-187-45	Sequence 45, Appl
c 796	79.5	10.8	86081	18	US-10-741-601-5640	Sequence 5640, Ap	c 869	78.5	10.7	1614	17	US-10-671-242-45	Sequence 45, Appl
c 797	79.5	10.8	86081	9	US-10-741-600-17633	Sequence 17633, A	c 870	78.5	10.7	1817	17	US-10-425-114-30665	Sequence 30665, A
c 798	79.5	10.8	143306	9	US-09-729-920-3	Sequence 3, Appl	c 871	78.5	10.7	2152	18	US-10-437-963-46614	Sequence 46614, A
c 799	79.5	10.8	143306	13	US-10-887-932-3	Sequence 3, Appl	c 872	78.5	10.7	2153	17	US-10-302-172-753	Sequence 753, App
c 800	79.5	10.8	200418	13	US-10-087-192-568	Sequence 568, App	c 873	78.5	10.7	2154	9	US-09-929-583B-1	Sequence 1, Appl
c 801	78.5	10.8	428	17	US-10-424-599-134519	Sequence 134519, A	c 874	78.5	10.7	2154	17	US-10-305-720-1214	Sequence 1214, Ap
c 802	78.5	10.8	526	9	US-09-770-152-915	Sequence 915, App	c 875	78.5	10.7	2154	17	US-10-641-643-1094	Sequence 1094, Ap
c 803	78.5	10.8	543	13	US-10-027-632-250289	Sequence 250289, A	c 876	78.5	10.7	2154	17	US-10-749-990-1	Sequence 1, Appl
c 804	78.5	10.8	543	17	US-10-027-632-250289	Sequence 250289, A	c 877	78.5	10.7	2202	18	US-10-437-963-52334	Sequence 52334, A
c 805	78.5	10.8	550	18	US-10-425-115-120308	Sequence 120308, A	c 878	78.5	10.7	2240	17	US-10-302-172-571	Sequence 571, App
							c 879	78.5	10.7	3444	17	US-10-369-493-40475	Sequence 40475, A

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c1091	77	10.5	47493	17	US-10-052-482-55	Sequence 55, App	c1164	76.5	10.5	75270	10	US-09-790-852-1	Sequence 1, Appl
c1092	77	10.5	67311	17	US-09-942-025-1	Sequence 1, Appl	c1165	76.5	10.5	75270	18	US-10-723-860-2554	Sequence 2554, App
c1093	77	10.5	72705	13	US-10-087-192-1966	Sequence 1966, App	c1166	76.5	10.5	96598	11	US-09-997-722-127	Sequence 127, App
c1094	77	10.5	172569	13	US-10-087-192-1366	Sequence 1366, App	c1167	76.5	10.5	398287	18	US-10-741-601-5719	Sequence 5719, App
c1095	77	10.5	227968	18	US-10-723-860-1357	Sequence 1357, App	c1168	76.5	10.5	398287	19	US-10-741-600-17839	Sequence 17839, A
c1096	77	10.5	631322	13	US-10-087-192-226	Sequence 226, App	c1169	76	10.4	424	9	US-09-728-445-319	Sequence 319, App
c1097	77	10.5	198090	19	US-10-741-600-17676	Sequence 17676, A	c1170	76	10.4	495	18	US-10-425-115-37636	Sequence 37636, A
c1098	76.5	10.5	201	18	US-10-741-601-12265	Sequence 12265, A	c1171	76	10.4	504	9	US-09-923-779-110	Sequence 110, App
c1099	76.5	10.5	201	19	US-10-741-600-2928	Sequence 2928, A	c1172	76	10.4	519	18	US-10-437-963-69472	Sequence 69472, A
c1100	76.5	10.5	414	18	US-10-767-701-18687	Sequence 18687, A	c1173	76	10.4	532	9	US-09-923-779-132	Sequence 132, App
c1101	76.5	10.5	636	18	US-10-363-345A-16707	Sequence 16707, A	c1174	76	10.4	533	9	US-09-923-779-36	Sequence 36, Appl
c1102	76.5	10.5	636	18	US-10-363-345A-16708	Sequence 16708, A	c1175	76	10.4	533	9	US-09-923-779-109	Sequence 109, App
c1103	76.5	10.5	670	18	US-10-437-963-41075	Sequence 41075, A	c1176	76	10.4	533	9	US-09-923-779-113	Sequence 113, App
c1104	76.5	10.5	700	9	US-09-864-761-17529	Sequence 17529, A	c1177	76	10.4	533	9	US-09-923-779-130	Sequence 130, App
c1105	76.5	10.5	862	18	US-10-363-345A-17361	Sequence 17361, A	c1178	76	10.4	533	9	US-09-923-779-131	Sequence 131, App
c1106	76.5	10.5	917	18	US-10-363-345A-17362	Sequence 17362, A	c1179	76	10.4	533	9	US-09-923-779-133	Sequence 133, App
c1107	76.5	10.5	917	18	US-10-363-345A-17362	Sequence 17362, A	c1180	76	10.4	533	9	US-09-923-779-143	Sequence 143, App
c1108	76.5	10.5	1018	9	US-09-864-761-19967	Sequence 19967, A	c1181	76	10.4	556	16	US-10-029-386-4202	Sequence 4202, App
c1109	76.5	10.5	1025	10	US-09-814-353-20195	Sequence 20195, A	c1182	76	10.4	581	18	US-10-021-323-5852	Sequence 5852, App
c1110	76.5	10.5	1037	18	US-10-437-963-32660	Sequence 32660, A	c1183	76	10.4	590	18	US-10-021-323-9162	Sequence 9162, App
c1111	76.5	10.5	1035	18	US-10-437-963-86085	Sequence 86085, A	c1184	76	10.4	590	18	US-10-425-115-112717	Sequence 112717, A
c1112	76.5	10.5	1095	18	US-10-437-963-93303	Sequence 93303, A	c1185	76	10.4	595	18	US-10-425-115-97678	Sequence 97678, A
c1113	76.5	10.5	1111	13	US-10-027-632-101132	Sequence 101132, A	c1186	76	10.4	628	10	US-09-764-891-976	Sequence 976, App
c1114	76.5	10.5	1111	17	US-10-027-632-101132	Sequence 101132, A	c1187	76	10.4	639	17	US-10-332-853-283	Sequence 283, App
c1115	76.5	10.5	1199	18	US-10-437-963-35078	Sequence 35078, A	c1188	76	10.4	710	18	US-10-767-701-7396	Sequence 7396, App
c1116	76.5	10.5	1214	13	US-10-027-632-203565	Sequence 203565, A	c1189	76	10.4	717	9	US-09-815-242-7765	Sequence 7765, App
c1117	76.5	10.5	1214	17	US-10-027-632-203565	Sequence 203565, A	c1190	76	10.4	717	18	US-10-283-122A-30175	Sequence 30175, A
c1118	76.5	10.5	1228	17	US-10-425-114-19521	Sequence 19521, A	c1191	76	10.4	717	18	US-10-478-914-42	Sequence 42, Appl
c1119	76.5	10.5	1248	18	US-10-437-963-57697	Sequence 57697, A	c1192	76	10.4	719	9	US-09-740-668A-13	Sequence 13, Appl
c1120	76.5	10.5	1323	17	US-10-425-114-31978	Sequence 31978, A	c1193	76	10.4	828	17	US-10-424-599-42171	Sequence 42171, A
c1121	76.5	10.5	1486	18	US-10-425-115-177427	Sequence 177427, A	c1194	76	10.4	828	9	US-09-815-242-7971	Sequence 7971, App
c1122	76.5	10.5	1514	17	US-10-172-118-1491	Sequence 1491, App	c1195	76	10.4	828	17	US-10-283-122A-30565	Sequence 30565, A
c1123	76.5	10.5	1514	17	US-10-342-887-1491	Sequence 1491, App	c1196	76	10.4	893	18	US-10-437-963-77771	Sequence 77771, A
c1124	76.5	10.5	1547	18	US-10-437-963-85409	Sequence 85409, A	c1197	76	10.4	912	17	US-10-424-599-104986	Sequence 104986, A
c1125	76.5	10.5	1640	18	US-10-425-115-90083	Sequence 90083, A	c1198	76	10.4	1000	18	US-10-425-115-158119	Sequence 158119, A
c1126	76.5	10.5	1686	17	US-10-369-493-36841	Sequence 36841, A	c1199	76	10.4	1025	17	US-10-425-114-4601	Sequence 4601, App
c1127	76.5	10.5	1749	15	US-10-156-761-4806	Sequence 4806, App	c1200	76	10.4	1062	17	US-10-425-114-17725	Sequence 17725, A
c1128	76.5	10.5	1990	18	US-10-425-115-134727	Sequence 134727, A	c1201	76	10.4	1080	10	US-09-953-348-53	Sequence 53, Appl
c1129	76.5	10.5	2157	16	US-10-029-386-25369	Sequence 25369, A	c1202	76	10.4	1080	15	US-10-267-255-53	Sequence 53, Appl
c1130	76.5	10.5	2200	18	US-10-437-963-86609	Sequence 86609, A	c1203	76	10.4	1123	18	US-10-312-354-85	Sequence 85, Appl
c1131	76.5	10.5	2516	15	US-10-225-567A-533	Sequence 533, App	c1204	76	10.4	1144	17	US-10-425-114-3406	Sequence 3406, A
c1132	76.5	10.5	2516	17	US-10-172-118-1819	Sequence 1819, App	c1205	76	10.4	1160	18	US-10-739-963-5132	Sequence 5132, App
c1133	76.5	10.5	2516	17	US-10-342-887-1819	Sequence 1819, App	c1206	76	10.4	1180	18	US-10-437-963-96342	Sequence 96342, A
c1134	76.5	10.5	2563	15	US-10-156-761-3914	Sequence 3914, App	c1207	76	10.4	1184	18	US-10-425-115-180692	Sequence 180692, A
c1135	76.5	10.5	2643	17	US-10-369-493-25661	Sequence 25661, A	c1208	76	10.4	1202	18	US-10-425-115-8776	Sequence 8776, App
c1136	76.5	10.5	2646	18	US-10-663-158-3	Sequence 3, Appl	c1209	76	10.4	1289	17	US-10-425-115-4962	Sequence 4962, App
c1137	76.5	10.5	2697	17	US-10-062-674-1584	Sequence 1584, App	c1210	76	10.4	1363	17	US-10-424-599-130398	Sequence 130398, A
c1138	76.5	10.5	2875	10	US-09-764-891-9635	Sequence 9635, App	c1211	76	10.4	1386	17	US-10-425-114-10440	Sequence 10440, A
c1139	76.5	10.5	3143	18	US-10-451-467A-327	Sequence 327, App	c1212	76	10.4	1399	17	US-10-425-114-20057	Sequence 20057, A
c1140	76.5	10.5	3548	18	US-10-437-963-70323	Sequence 70323, App	c1213	76	10.4	1435	18	US-10-437-963-1728	Sequence 1728, App
c1141	76.5	10.5	4476	18	US-10-437-963-98575	Sequence 98575, A	c1214	76	10.4	1524	18	US-10-437-963-23261	Sequence 23261, A
c1142	76.5	10.5	4877	18	US-10-761-169-13	Sequence 13, Appl	c1215	76	10.4	1543	17	US-10-424-599-120054	Sequence 120054, A
c1143	76.5	10.5	5540	18	US-10-478-146-26	Sequence 26, App	c1216	76	10.4	1572	17	US-10-424-599-120053	Sequence 120053, A
c1144	76.5	10.5	5913	18	US-10-437-963-68218	Sequence 68218, A	c1217	76	10.4	1620	17	US-10-424-599-113981	Sequence 113981, A
c1145	76.5	10.5	7097	17	US-10-085-198-107	Sequence 107, App	c1218	76	10.4	1657	9	US-09-915-582-31	Sequence 31, Appl
c1146	76.5	10.5	8147	13	US-10-109-886-9	Sequence 9, Appl	c1219	76	10.4	1657	16	US-10-277-802-31	Sequence 31, Appl
c1147	76.5	10.5	11466	18	US-10-723-860-5608	Sequence 5608, App	c1220	76	10.4	1657	15	US-10-896-973-31	Sequence 31, Appl
c1148	76.5	10.5	11598	18	US-10-719-993-402	Sequence 402, App	c1221	76	10.4	1671	15	US-10-156-761-3591	Sequence 3591, App
c1149	76.5	10.5	11602	18	US-10-719-993-403	Sequence 403, App	c1222	76	10.4	1675	18	US-10-437-963-64049	Sequence 64049, A
c1150	76.5	10.5	12493	18	US-10-739-946-1	Sequence 1, Appl	c1223	76	10.4	1741	15	US-10-229-193-13	Sequence 13, Appl
c1151	76.5	10.5	12494	16	US-10-252-157-263	Sequence 263, App	c1224	76	10.4	1746	9	US-09-915-582-15	Sequence 15, Appl
c1152	76.5	10.5	12505	17	US-10-115-831-18	Sequence 18, App	c1225	76	10.4	1746	16	US-10-277-802-15	Sequence 15, Appl
c1153	76.5	10.5	12515	10	US-09-918-6248-48	Sequence 48, App	c1226	76	10.4	1746	9	US-10-896-973-15	Sequence 15, Appl
c1154	76.5	10.5	12515	11	US-09-968-007A-989	Sequence 989, App	c1227	76	10.4	1810	9	US-09-764-868-102	Sequence 102, App
c1155	76.5	10.5	12515	17	US-10-388-360-313	Sequence 313, App	c1228	76	10.4	1810	11	US-09-764-875-137	Sequence 137, App
c1156	76.5	10.5	12515	17	US-10-719-993-405	Sequence 405, App	c1229	76	10.4	1845	17	US-10-108-260A-2192	Sequence 2192, App
c1157	76.5	10.5	12632	13	US-10-071-766-49	Sequence 49, App	c1230	76	10.4	2086	17	US-10-425-114-21287	Sequence 21287, A
c1158	76.5	10.5	12678	18	US-10-719-993-404	Sequence 404, App	c1231	76	10.4	2178	18	US-10-437-963-2845	Sequence 2845, App
c1159	76.5	10.5	14123	19	US-10-741-600-17921	Sequence 17921, A	c1232	76	10.4	2210	17	US-10-388-360-382	Sequence 382, App
c1160	76.5	10.5	16220	19	US-10-741-600-17562	Sequence 17562, A	c1233	76	10.4	2267	17	US-10-108-260A-1064	Sequence 1064, App
c1161	76.5	10.5	22644	13	US-10-087-192-445	Sequence 445, App	c1234	76	10.4	2508	17	US-10-133-937-52	Sequence 52, Appl
c1162	76.5	10.5	41736	18	US-10-719-993-6886	Sequence 6886, App	c1235	76	10.4	2508	17	US-10-159-563-52	Sequence 52, Appl

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1237	76	10.4	2553	17	US-10-108-260A-1445	Sequence 1445, Ap	cl1310	75.5	10.3	1060	18	US-10-357-930-21555	Sequence 21555, A
1238	76	10.4	2576	18	US-10-425-115-142628	Sequence 142628, A	cl1311	75.5	10.3	1060	18	US-10-357-930-21669	Sequence 21669, A
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1271	75.5	10.3	492	17	US-10-424-599-138374	Sequence 138374, A	cl1348	75.5	10.3	3429	17	US-10-267-502-197	Sequence 197, App
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